

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P534252

Luminaire Tested: **GALN-SA9D-727-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534252
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-727-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51199 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

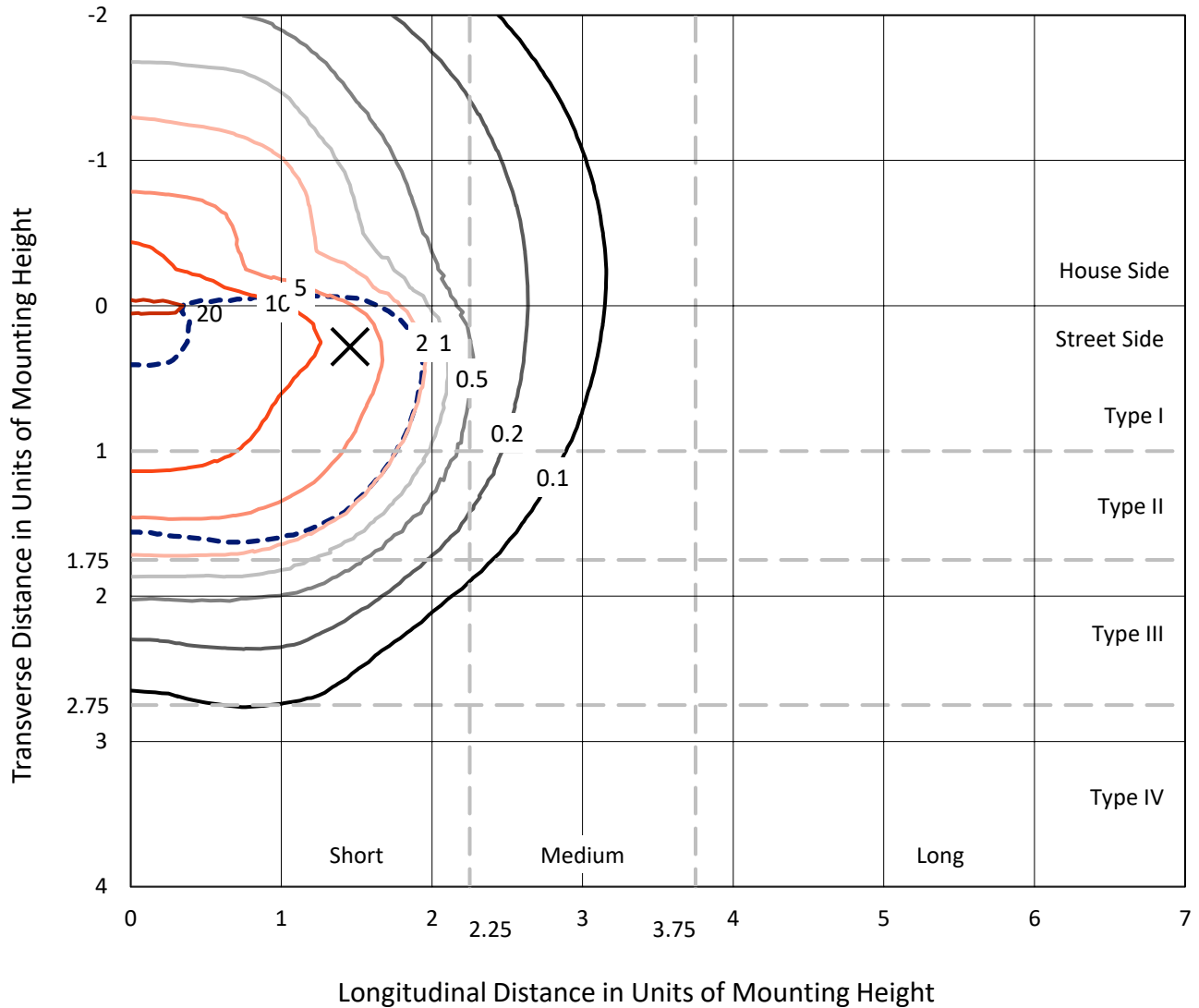
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

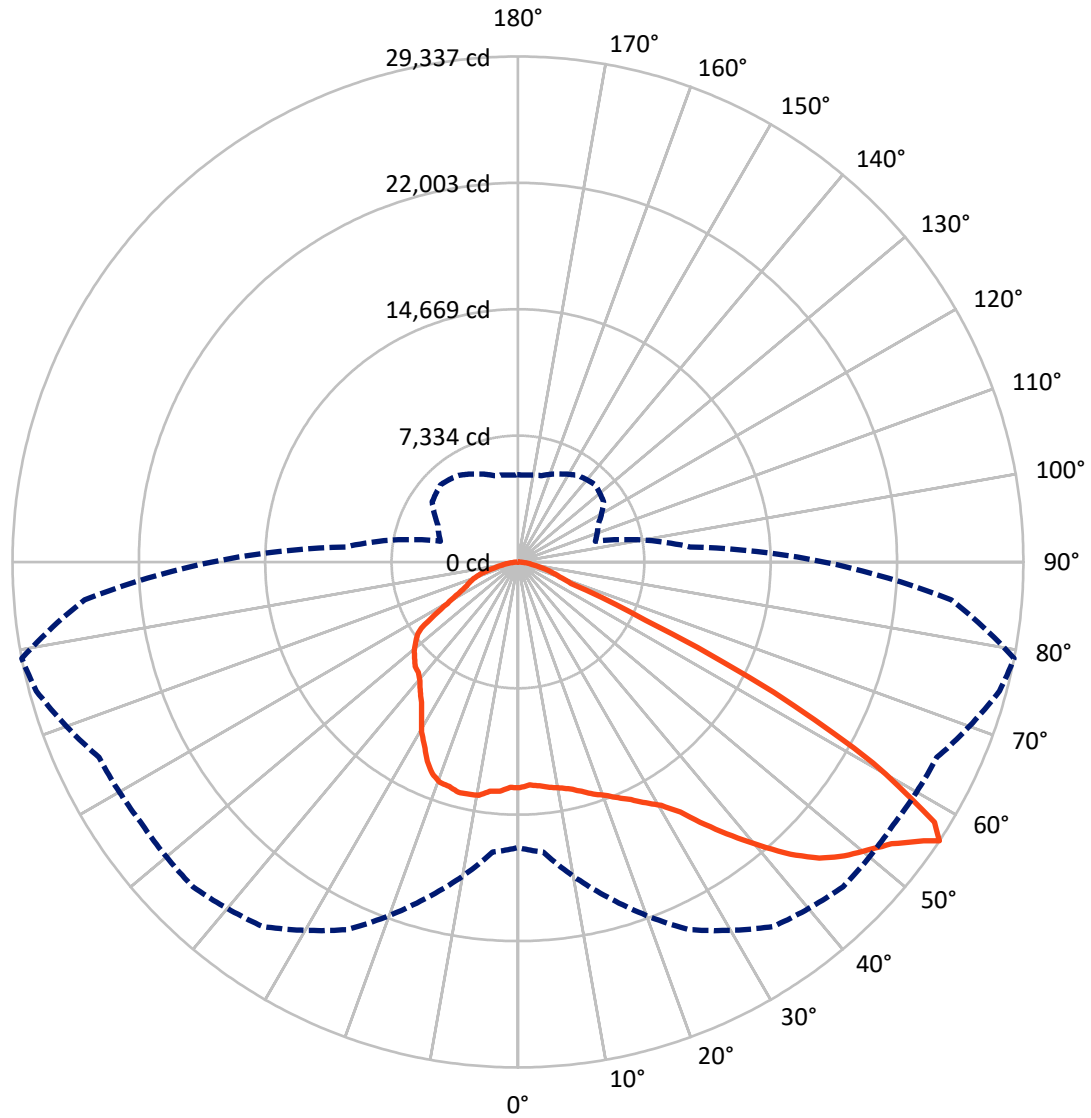
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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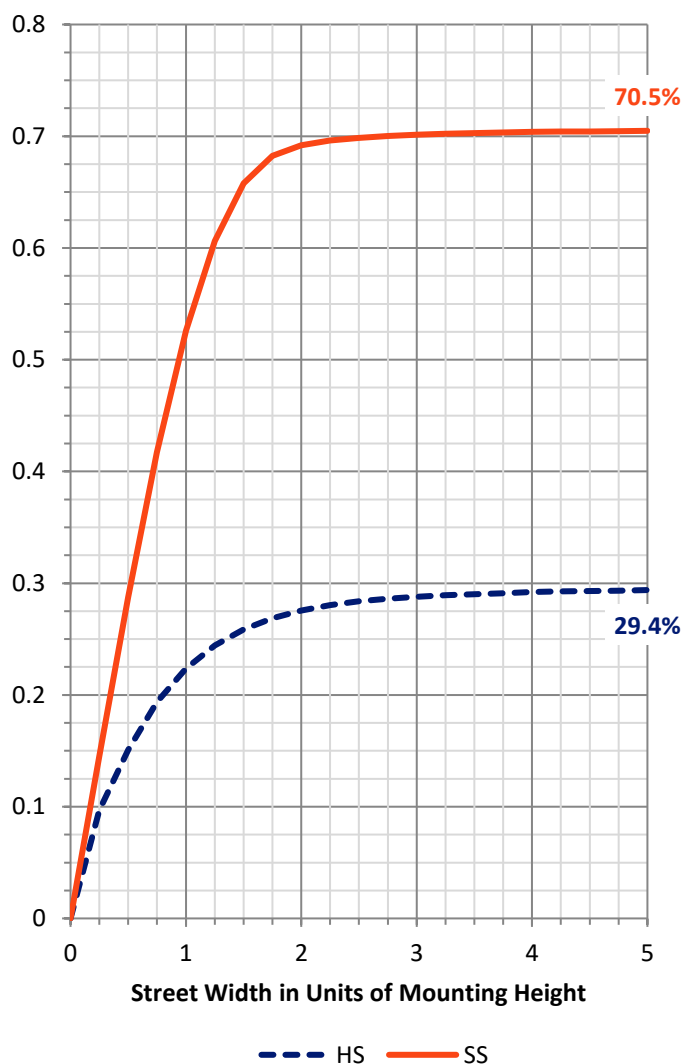
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15120.2	0.0	15120.2
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	36078.8	0.0	36078.8
	% Fixture	70.5	0.0	70.5
Total	Lumens	51199.0	0.0	51199.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1191.0	2.3
10°-20°	3259.5	6.4
20°-30°	5576.4	10.9
30°-40°	8546.5	16.7
40°-50°	11550.5	22.6
50°-60°	13266.2	25.9
60°-70°	6047.1	11.8
70°-80°	1490.9	2.9
80°-90°	271.0	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	51199.0	100.0
0°-180°	51199.0	100.0

Coefficient of Utilization



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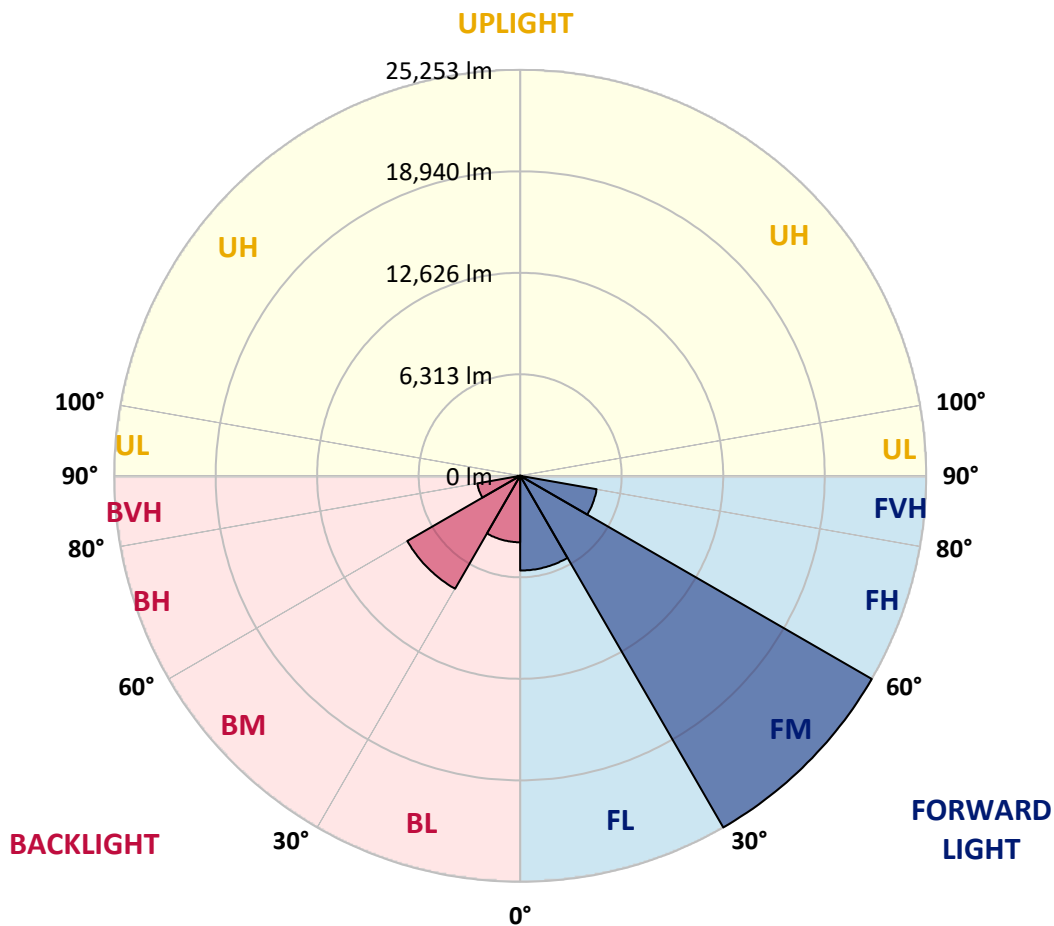
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5890.9	11.5			
FM (30°-60°)	25252.9	49.3			
FH (60°-80°)	4826.9	9.4			G2/5000
FVH (80°-90°)	108.2	0.2			G2/225
BL (0°-30°)	4136.0	8.1	B4/5000		
BM (30°-60°)	8110.3	15.8	B4/8500		
BH (60°-80°)	2711.1	5.3	B4/5000		G4/5000
BVH (80°-90°)	162.8	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	13099.8	13099.8	13099.8	13099.8	13099.8	13099.8	13099.8	13099.8	13099.8	13099.8	13099.8
2.5°	12462.0	12430.1	12506.7	12564.1	12634.2	12723.5	12768.2	12793.7	13016.9	12959.5	13131.7
5°	12194.2	12111.3	12168.7	12213.3	12334.5	12442.9	12564.1	12755.4	12959.5	13048.8	13259.2
7.5°	11958.2	11913.5	11900.8	11932.7	12098.5	12238.8	12449.3	12729.9	13061.5	13208.2	13329.4
10°	11569.1	11505.4	11601.0	11811.5	11856.1	12149.5	12391.9	12793.7	13080.7	13335.8	13692.9
12.5°	11397.0	11333.2	11352.3	11473.5	11786.0	12066.6	12353.6	12806.4	13412.3	13514.3	13992.7
15°	11671.2	11607.4	11626.5	11594.7	11894.4	12041.1	12493.9	13061.5	13641.9	13814.1	14324.3
17.5°	12296.2	12302.6	12219.7	12149.5	12079.4	12391.9	12704.4	13214.6	13731.2	14164.9	14547.5
20°	13488.8	13278.4	13112.6	12717.1	12608.7	12742.6	13138.1	13629.1	14094.7	14451.9	14885.6
22.5°	14407.2	14426.4	14190.4	13539.9	13303.9	13361.3	13699.3	14101.1	14611.3	14866.4	15363.9
25°	15740.2	15606.2	15351.1	14834.5	14305.2	14349.8	14598.6	14962.1	15102.4	15281.0	15823.1
27.5°	16958.3	16996.6	16492.7	16008.0	15351.1	15223.6	15670.0	15733.8	15497.8	15835.8	16020.8
30°	18195.6	18163.7	17832.1	17264.4	16620.3	16645.8	16843.5	16531.0	16205.7	16390.7	16518.2
32.5°	19477.5	19114.0	19101.2	18591.0	18099.9	17863.9	17621.6	17774.7	17270.8	17309.1	17187.9
35°	20504.3	20555.3	20262.0	19898.4	19656.1	19241.5	18578.2	18852.5	18756.8	18712.2	18189.2
37.5°	21250.5	21052.8	21199.5	21078.3	20848.7	20332.1	19643.3	19904.8	19949.4	20166.3	19560.4
40°	21862.8	21779.8	22168.9	22232.7	22073.2	20957.1	19719.8	20497.9	21167.6	21639.5	20918.9
42.5°	22156.1	22334.7	22742.9	23234.0	22876.8	21684.2	20115.3	20950.7	22443.1	23189.3	22207.2
45°	22551.5	22322.0	22927.8	23827.1	23833.5	22296.4	20497.9	21563.0	23438.0	24522.3	23087.3
47.5°	22149.8	22264.6	22889.6	24031.2	24324.5	22940.6	21531.1	22430.4	24535.0	25498.0	23903.6
50°	21250.5	21480.1	22621.7	23808.0	24694.5	23623.0	22717.4	23367.9	25549.1	26282.5	24037.6
52.5°	20313.0	20440.5	22226.3	23980.2	24860.3	24503.1	24305.4	24662.6	26786.3	27169.0	24203.4
55°	17761.9	18367.8	20918.9	23903.6	25670.2	26091.2	25938.1	26461.1	28189.4	28572.1	25109.0
56°	16582.0	16900.9	20134.4	23546.5	25829.7	26671.5	26595.0	26831.0	28935.6	29337.4	25249.3
57.5°	14400.8	14426.4	17168.8	21964.8	25230.2	26843.7	26767.2	26952.2	28788.9	28514.7	24018.4
60°	9011.7	9407.1	11683.9	16894.5	21454.6	24904.9	25338.6	23852.6	24273.5	23693.2	18686.7
62.5°	4668.5	4611.1	6122.6	9879.1	14241.4	17832.1	18233.8	18163.7	17513.2	16664.9	12206.9
65°	2327.9	2340.6	3201.6	4891.7	7296.1	9337.0	10459.4	10580.6	8852.2	8144.3	5791.0
67.5°	1690.1	1753.9	2302.3	2991.1	3437.6	3845.8	4713.1	4623.8	3501.4	3329.2	3086.8
70°	1313.8	1371.2	1868.7	2283.2	2072.8	2072.8	2257.7	2334.2	2493.7	2563.8	2646.7
72.5°	956.7	1001.3	1428.6	1575.3	1358.5	1460.5	1690.1	1868.7	2034.5	2060.0	2155.7
75°	656.9	695.2	937.5	867.4	816.3	1007.7	1237.3	1403.1	1524.3	1588.0	1645.4
77.5°	427.3	440.1	535.7	452.8	523.0	650.5	803.6	943.9	1065.1	1116.1	1128.9
80°	191.3	210.5	229.6	287.0	363.5	465.6	574.0	688.8	765.3	784.5	822.7
82.5°	108.4	108.4	140.3	204.1	267.9	338.0	414.6	497.5	586.7	605.9	599.5
85°	57.4	57.4	82.9	121.2	165.8	197.7	191.3	197.7	210.5	242.4	236.0
87.5°	19.1	19.1	25.5	25.5	31.9	38.3	31.9	44.6	57.4	57.4	57.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13099.8	13099.8	13099.8	13099.8	13099.8	13099.8	13099.8	13099.8	13099.8	13099.8	13099.8
2.5°	13080.7	13138.1	13061.5	13227.4	13227.4	13195.5	13036.0	13087.0	13125.3	13125.3	13157.2
5°	13329.4	13310.3	13361.3	13163.6	13042.4	12997.8	12736.3	12608.7	12500.3	12493.9	12398.2
7.5°	13469.7	13418.7	13399.5	13252.9	12717.1	12391.9	11830.6	11505.4	11435.2	11186.5	11282.2
10°	13692.9	13788.6	13692.9	12895.7	12149.5	11403.3	10854.8	10351.0	10153.3	9993.9	9898.2
12.5°	14152.1	14107.5	13552.6	12474.8	11428.8	10542.3	9726.0	9196.6	8998.9	8858.6	8845.9
15°	14541.2	14317.9	13469.7	11811.5	10306.4	9362.5	8692.8	8316.5	8227.2	8240.0	8297.4
17.5°	14675.1	14522.0	13036.0	11122.7	9470.9	8361.2	8048.7	7991.3	8074.2	8169.8	8195.3
20°	14885.6	14643.2	12857.4	10185.2	8437.7	7736.2	7717.0	7921.1	8074.2	8214.5	8233.6
22.5°	15325.6	14713.4	12277.1	9298.7	7729.8	7551.2	7736.2	7908.3	8144.3	8259.1	8157.1
25°	15453.2	14560.3	11460.7	8233.6	7283.3	7436.4	7634.1	7870.1	8035.9	8099.7	8144.3
27.5°	15561.6	14324.3	10357.4	7525.7	7143.0	7430.0	7634.1	7831.8	7921.1	7978.5	8029.5
30°	15867.7	14254.2	9400.7	7053.7	7053.7	7302.5	7564.0	7615.0	7736.2	7806.3	7895.6
32.5°	16020.8	13769.5	8418.6	6754.0	6964.4	7366.2	7385.4	7481.0	7487.4	7544.8	7449.2
35°	16422.6	13425.1	7506.6	6537.1	7002.7	7302.5	7398.1	7340.7	7028.2	6875.2	6907.0
37.5°	16716.0	13252.9	6849.7	6511.6	7009.1	7372.6	7423.6	6990.0	6664.7	6409.6	6473.4
40°	17506.8	12825.6	6352.2	6467.0	7066.5	7449.2	7308.8	6836.9	6250.1	5988.7	5944.0
42.5°	18112.7	12519.4	6039.7	6416.0	7111.1	7557.6	7251.4	6530.8	5931.3	5688.9	5752.7
45°	18814.2	12449.3	5873.9	6428.7	7187.7	7615.0	7181.3	6294.8	5657.0	5561.4	5542.2
47.5°	19062.9	11945.4	5695.3	6320.3	7168.5	7595.8	6945.3	6116.2	5555.0	5567.7	5618.8
50°	18648.4	11428.8	5561.4	6097.1	7041.0	7423.6	6575.4	5880.2	5497.6	5657.0	5746.3
52.5°	18119.0	10899.5	5287.1	5797.3	6779.5	7155.8	6403.2	5867.5	5440.2	5389.2	5408.3
55°	18278.5	10465.8	4904.5	5389.2	6358.6	6658.3	6211.9	5746.3	5299.9	5108.5	5172.3
56°	17761.9	10019.4	4655.7	5134.0	6071.6	6339.4	6116.2	5637.9	5185.1	5057.5	5057.5
57.5°	16301.4	8520.6	4330.5	4725.9	5465.7	5784.6	5931.3	5574.1	5057.5	4834.3	4840.7
60°	12022.0	6058.8	3884.0	4164.6	4528.2	4783.3	5465.7	5395.5	4738.6	4585.6	4528.2
62.5°	7410.9	4426.1	3565.1	3673.6	3858.5	4069.0	4770.5	4885.3	4400.6	4234.8	4196.5
65°	4151.9	3386.6	3322.8	3367.4	3456.7	3565.1	3960.6	4215.7	3884.0	3628.9	3616.2
67.5°	3035.8	3029.4	3080.4	3118.7	3157.0	3157.0	3252.6	3354.7	3310.0	3105.9	3086.8
70°	2697.8	2716.9	2755.2	2761.5	2774.3	2729.7	2653.1	2621.2	2672.3	2544.7	2519.2
72.5°	2225.8	2289.6	2334.2	2340.6	2270.5	2213.1	2111.0	2002.6	1964.3	1938.8	1932.4
75°	1709.2	1753.9	1773.0	1766.6	1741.1	1658.2	1537.0	1428.6	1358.5	1281.9	1320.2
77.5°	1154.4	1218.1	1250.0	1250.0	1211.8	1084.2	1026.8	943.9	873.7	790.8	803.6
80°	810.0	854.6	905.6	899.3	835.5	771.7	688.8	612.3	554.9	491.1	484.7
82.5°	605.9	631.4	656.9	644.1	599.5	535.7	478.3	408.2	344.4	299.8	299.8
85°	216.8	236.0	287.0	299.8	325.3	325.3	274.2	229.6	185.0	153.1	153.1
87.5°	63.8	63.8	70.2	70.2	63.8	70.2	57.4	63.8	70.2	44.6	44.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)