

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: P532302

Luminaire Tested: **GALN-SA7C-827-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532302
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-SA7C-827-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1050mA 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: 31424 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

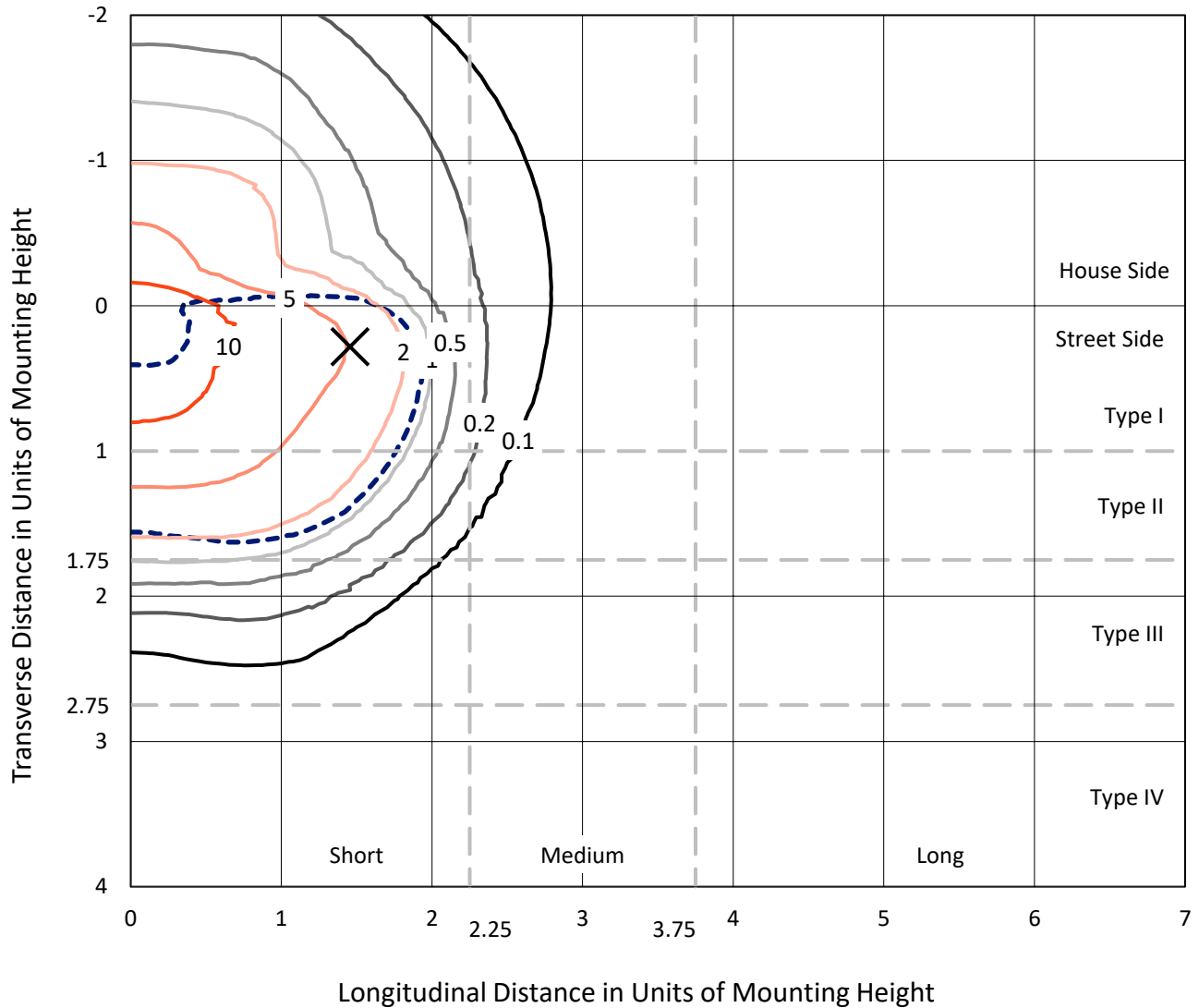
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

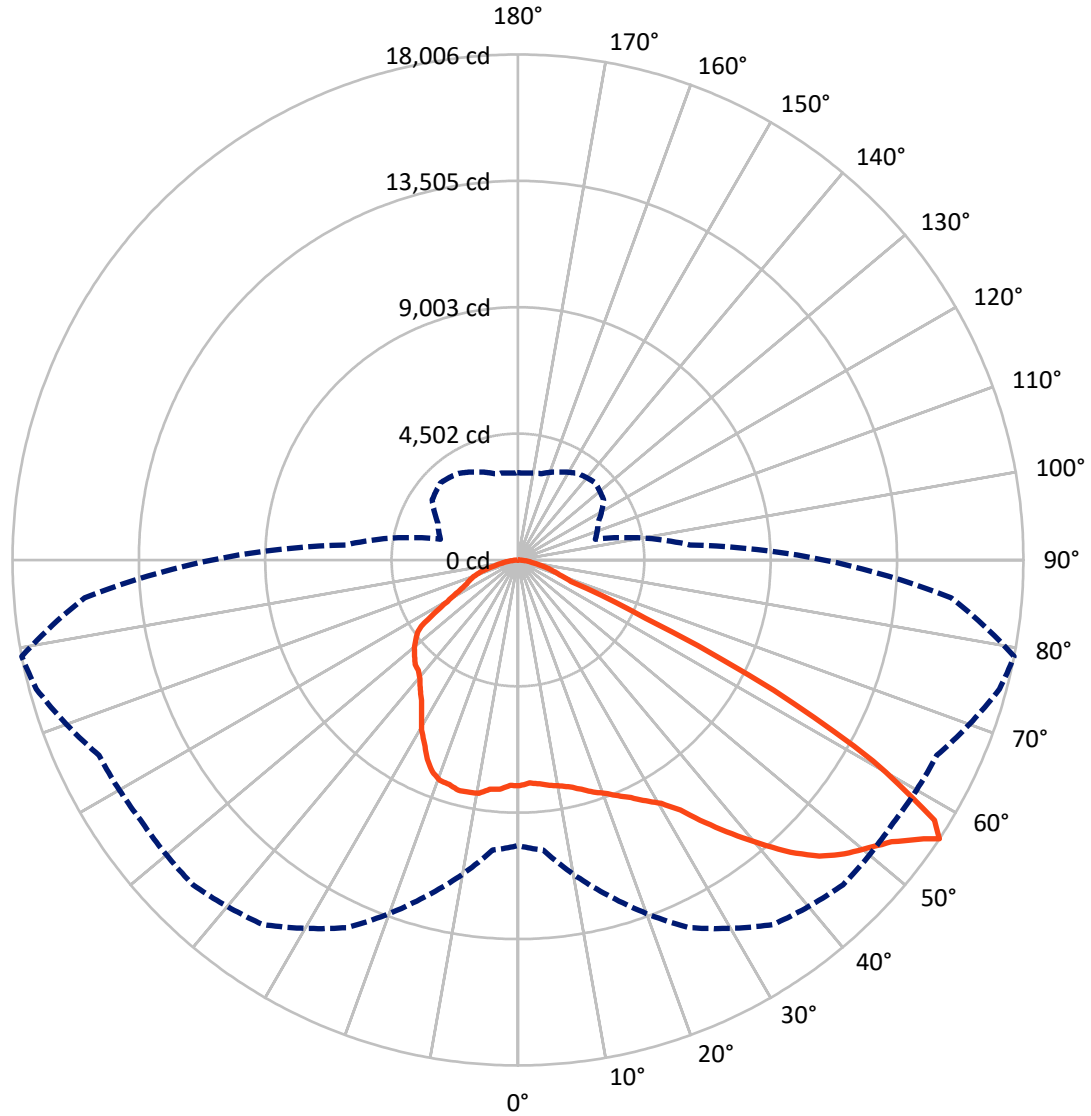
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 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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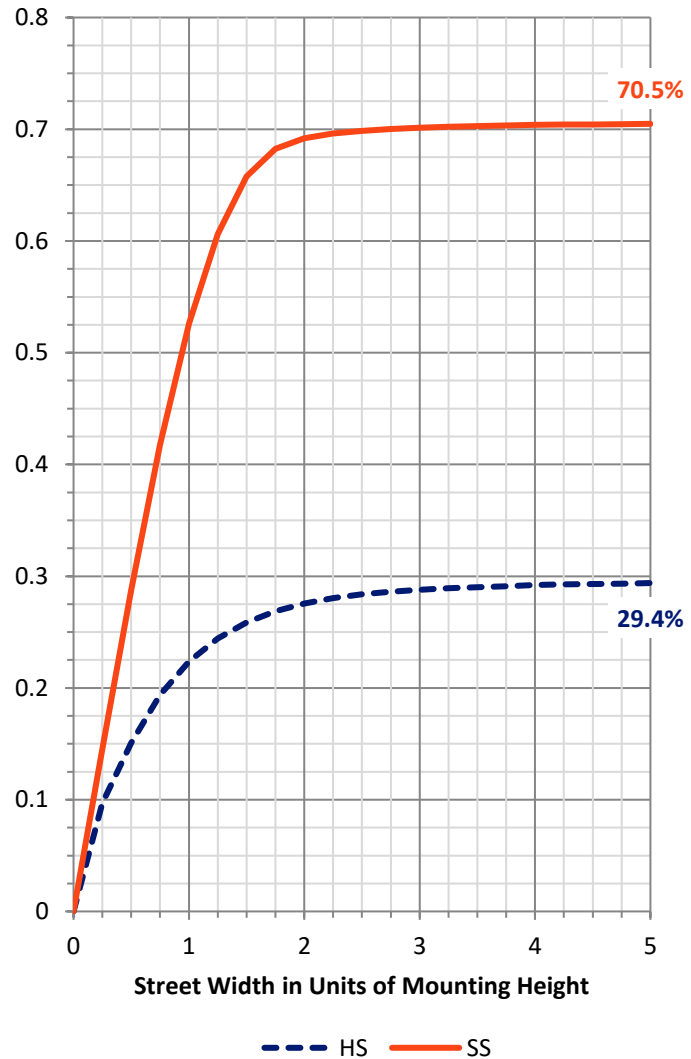
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9280.2	0.0	9280.2
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	22143.8	0.0	22143.8
	% Fixture	70.5	0.0	70.5
Total	Lumens	31424.0	0.0	31424.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	731.0	2.3
10°-20°	2000.6	6.4
20°-30°	3422.6	10.9
30°-40°	5245.5	16.7
40°-50°	7089.3	22.6
50°-60°	8142.3	25.9
60°-70°	3711.5	11.8
70°-80°	915.1	2.9
80°-90°	166.3	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°	31424.0	100.0
0°-180°	31424.0	100.0

Coefficient of Utilization



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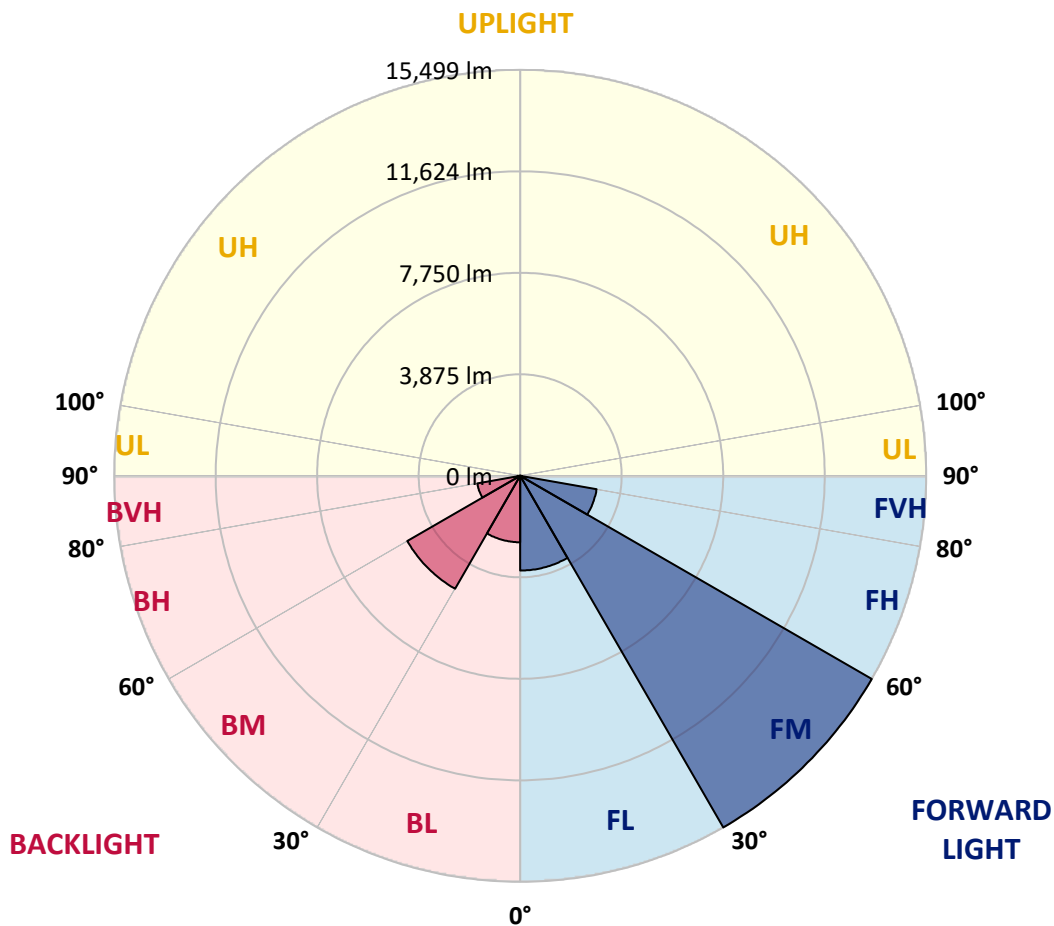
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3615.6	11.5			
FM (30°-60°)	15499.2	49.3			
FH (60°-80°)	2962.6	9.4			G2/5000
FVH (80°-90°)	66.4	0.2			G1/100
BL (0°-30°)	2538.5	8.1	B4/5000		
BM (30°-60°)	4977.8	15.8	B3/5000		
BH (60°-80°)	1664.0	5.3	B3/2500		G3/2500
BVH (80°-90°)	99.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	8040.2	8040.2	8040.2	8040.2	8040.2	8040.2	8040.2	8040.2	8040.2	8040.2	8040.2
2.5°	7648.7	7629.1	7676.1	7711.3	7754.4	7809.2	7836.6	7852.3	7989.3	7954.0	8059.7
5°	7484.3	7433.4	7468.7	7496.1	7570.4	7637.0	7711.3	7828.8	7954.0	8008.8	8138.0
7.5°	7339.5	7312.1	7304.3	7323.8	7425.6	7511.7	7640.9	7813.1	8016.7	8106.7	8181.1
10°	7100.7	7061.6	7120.3	7249.5	7276.9	7456.9	7605.7	7852.3	8028.4	8185.0	8404.2
12.5°	6995.0	6955.9	6967.6	7042.0	7233.8	7406.0	7582.2	7860.1	8232.0	8294.6	8588.2
15°	7163.3	7124.2	7135.9	7116.4	7300.3	7390.4	7668.3	8016.7	8372.9	8478.6	8791.7
17.5°	7546.9	7550.9	7500.0	7456.9	7413.9	7605.7	7797.5	8110.6	8427.7	8693.9	8928.7
20°	8278.9	8149.8	8048.0	7805.3	7738.7	7821.0	8063.6	8365.1	8650.8	8870.0	9136.2
22.5°	8842.6	8854.4	8709.5	8310.3	8165.4	8200.6	8408.1	8654.7	8967.9	9124.4	9429.8
25°	9660.7	9578.5	9421.9	9104.9	8780.0	8807.4	8960.0	9183.2	9269.3	9378.9	9711.6
27.5°	10408.4	10431.8	10122.6	9825.1	9421.9	9343.6	9617.7	9656.8	9512.0	9719.4	9832.9
30°	11167.8	11148.2	10944.6	10596.3	10200.9	10216.6	10337.9	10146.1	9946.5	10060.0	10138.3
32.5°	11954.5	11731.4	11723.6	11410.4	11109.0	10964.2	10815.5	10909.4	10600.2	10623.7	10549.3
35°	12584.8	12616.1	12436.0	12212.9	12064.2	11809.7	11402.6	11570.9	11512.2	11484.8	11163.8
37.5°	13042.7	12921.4	13011.4	12937.1	12796.1	12479.1	12056.3	12216.8	12244.2	12377.3	12005.4
40°	13418.5	13367.6	13606.4	13645.6	13547.7	12862.7	12103.3	12580.8	12991.9	13281.5	12839.2
42.5°	13598.6	13708.2	13958.7	14260.1	14040.9	13308.9	12346.0	12858.8	13774.7	14232.7	13629.9
45°	13841.3	13700.4	14072.2	14624.2	14628.1	13684.7	12580.8	13234.6	14385.4	15050.8	14170.1
47.5°	13594.7	13665.1	14048.7	14749.4	14929.5	14080.1	13215.0	13766.9	15058.7	15649.7	14671.1
50°	13042.7	13183.7	13884.3	14612.4	15156.5	14498.9	13943.1	14342.3	15681.0	16131.2	14753.3
52.5°	12467.3	12545.6	13641.6	14718.1	15258.3	15039.1	14917.7	15136.9	16440.4	16675.3	14855.1
55°	10901.6	11273.4	12839.2	14671.1	15755.4	16013.8	15919.8	16240.8	17301.6	17536.5	15411.0
56°	10177.4	10373.1	12357.7	14451.9	15853.3	16370.0	16323.0	16467.8	17759.6	18006.2	15497.1
57.5°	8838.7	8854.4	10537.5	13481.2	15485.3	16475.7	16428.7	16542.2	17669.6	17501.2	14741.6
60°	5531.0	5773.7	7171.2	10369.2	13168.0	15285.7	15551.9	14639.8	14898.2	14542.0	11469.2
62.5°	2865.3	2830.1	3757.8	6063.4	8740.8	10944.6	11191.2	11148.2	10748.9	10228.3	7492.1
65°	1428.8	1436.6	1965.0	3002.3	4478.1	5730.7	6419.6	6494.0	5433.2	4998.7	3554.3
67.5°	1037.3	1076.5	1413.1	1835.8	2109.9	2360.4	2892.7	2837.9	2149.0	2043.3	1894.6
70°	806.4	841.6	1146.9	1401.4	1272.2	1272.2	1385.7	1432.7	1530.5	1573.6	1624.5
72.5°	587.2	614.6	876.8	966.9	833.8	896.4	1037.3	1146.9	1248.7	1264.3	1323.1
75°	403.2	426.7	575.4	532.4	501.0	618.5	759.4	861.2	935.5	974.7	1009.9
77.5°	262.3	270.1	328.8	277.9	321.0	399.3	493.2	579.3	653.7	685.0	692.8
80°	117.4	129.2	140.9	176.1	223.1	285.8	352.3	422.8	469.7	481.5	505.0
82.5°	66.5	66.5	86.1	125.3	164.4	207.5	254.4	305.3	360.1	371.9	368.0
85°	35.2	35.2	50.9	74.4	101.8	121.3	117.4	121.3	129.2	148.7	144.8
87.5°	11.7	11.7	15.7	15.7	19.6	23.5	19.6	27.4	35.2	35.2	35.2
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°	8040.2	8040.2	8040.2	8040.2	8040.2	8040.2	8040.2	8040.2	8040.2	8040.2	8040.2
2.5°	8028.4	8063.6	8016.7	8118.4	8118.4	8098.9	8001.0	8032.3	8055.8	8055.8	8075.4
5°	8181.1	8169.3	8200.6	8079.3	8004.9	7977.5	7817.0	7738.7	7672.2	7668.3	7609.6
7.5°	8267.2	8235.9	8224.1	8134.1	7805.3	7605.7	7261.2	7061.6	7018.5	6865.8	6924.6
10°	8404.2	8462.9	8404.2	7914.9	7456.9	6998.9	6662.3	6353.1	6231.7	6133.8	6075.1
12.5°	8686.0	8658.6	8318.1	7656.5	7014.6	6470.5	5969.4	5644.6	5523.2	5437.1	5429.3
15°	8924.8	8787.8	8267.2	7249.5	6325.7	5746.3	5335.3	5104.4	5049.6	5057.4	5092.6
17.5°	9007.0	8913.1	8001.0	6826.7	5812.9	5131.8	4940.0	4904.7	4955.6	5014.3	5030.0
20°	9136.2	8987.4	7891.4	6251.3	5178.7	4748.2	4736.4	4861.7	4955.6	5041.7	5053.5
22.5°	9406.3	9030.5	7535.2	5707.2	4744.2	4634.6	4748.2	4853.8	4998.7	5069.1	5006.5
25°	9484.6	8936.6	7034.2	5053.5	4470.2	4564.2	4685.5	4830.4	4932.1	4971.3	4998.7
27.5°	9551.1	8791.7	6357.0	4619.0	4384.1	4560.3	4685.5	4806.9	4861.7	4896.9	4928.2
30°	9739.0	8748.7	5769.8	4329.3	4329.3	4482.0	4642.5	4673.8	4748.2	4791.2	4846.0
32.5°	9832.9	8451.2	5167.0	4145.3	4274.5	4521.1	4532.9	4591.6	4595.5	4630.7	4572.0
35°	10079.6	8239.8	4607.2	4012.2	4298.0	4482.0	4540.7	4505.5	4313.7	4219.7	4239.3
37.5°	10259.6	8134.1	4204.1	3996.6	4301.9	4525.0	4556.4	4290.2	4090.5	3934.0	3973.1
40°	10745.0	7871.8	3898.7	3969.2	4337.1	4572.0	4485.9	4196.2	3836.1	3675.6	3648.2
42.5°	11116.9	7683.9	3706.9	3937.9	4364.5	4638.6	4450.7	4008.3	3640.4	3491.6	3530.8
45°	11547.5	7640.9	3605.2	3945.7	4411.5	4673.8	4407.6	3863.5	3472.1	3413.3	3401.6
47.5°	11700.1	7331.7	3495.6	3879.2	4399.8	4662.0	4262.8	3753.9	3409.4	3417.3	3448.6
50°	11445.7	7014.6	3413.3	3742.2	4321.5	4556.4	4035.7	3609.1	3374.2	3472.1	3526.9
52.5°	11120.8	6689.7	3245.0	3558.2	4161.0	4391.9	3930.0	3601.2	3339.0	3307.7	3319.4
55°	11218.6	6423.5	3010.2	3307.7	3902.6	4086.6	3812.6	3526.9	3252.9	3135.4	3174.6
56°	10901.6	6149.5	2857.5	3151.1	3726.5	3890.9	3753.9	3460.3	3182.4	3104.1	3104.1
57.5°	10005.2	5229.6	2657.9	2900.6	3354.6	3550.4	3640.4	3421.2	3104.1	2967.1	2971.0
60°	7378.6	3718.7	2383.9	2556.1	2779.2	2935.8	3354.6	3311.6	2908.4	2814.4	2779.2
62.5°	4548.5	2716.6	2188.1	2254.7	2368.2	2497.4	2928.0	2998.4	2700.9	2599.2	2575.7
65°	2548.3	2078.5	2039.4	2066.8	2121.6	2188.1	2430.8	2587.4	2383.9	2227.3	2219.5
67.5°	1863.2	1859.3	1890.7	1914.1	1937.6	1937.6	1996.3	2059.0	2031.6	1906.3	1894.6
70°	1655.8	1667.5	1691.0	1694.9	1702.8	1675.4	1628.4	1608.8	1640.1	1561.8	1546.2
72.5°	1366.1	1405.3	1432.7	1436.6	1393.5	1358.3	1295.7	1229.1	1205.6	1190.0	1186.1
75°	1049.1	1076.5	1088.2	1084.3	1068.6	1017.7	943.4	876.8	833.8	786.8	810.3
77.5°	708.5	747.6	767.2	767.2	743.7	665.4	630.2	579.3	536.3	485.4	493.2
80°	497.1	524.5	555.8	551.9	512.8	473.6	422.8	375.8	340.6	301.4	297.5
82.5°	371.9	387.5	403.2	395.4	368.0	328.8	293.6	250.5	211.4	184.0	184.0
85°	133.1	144.8	176.1	184.0	199.6	199.6	168.3	140.9	113.5	93.9	93.9
87.5°	39.1	39.1	43.1	43.1	39.1	43.1	35.2	39.1	43.1	27.4	27.4
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)