

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: P532531

Luminaire Tested: **GALN-SA7D-827-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532531
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-827-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26197 lumens
Efficiency: N/A
Efficacy: 60.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

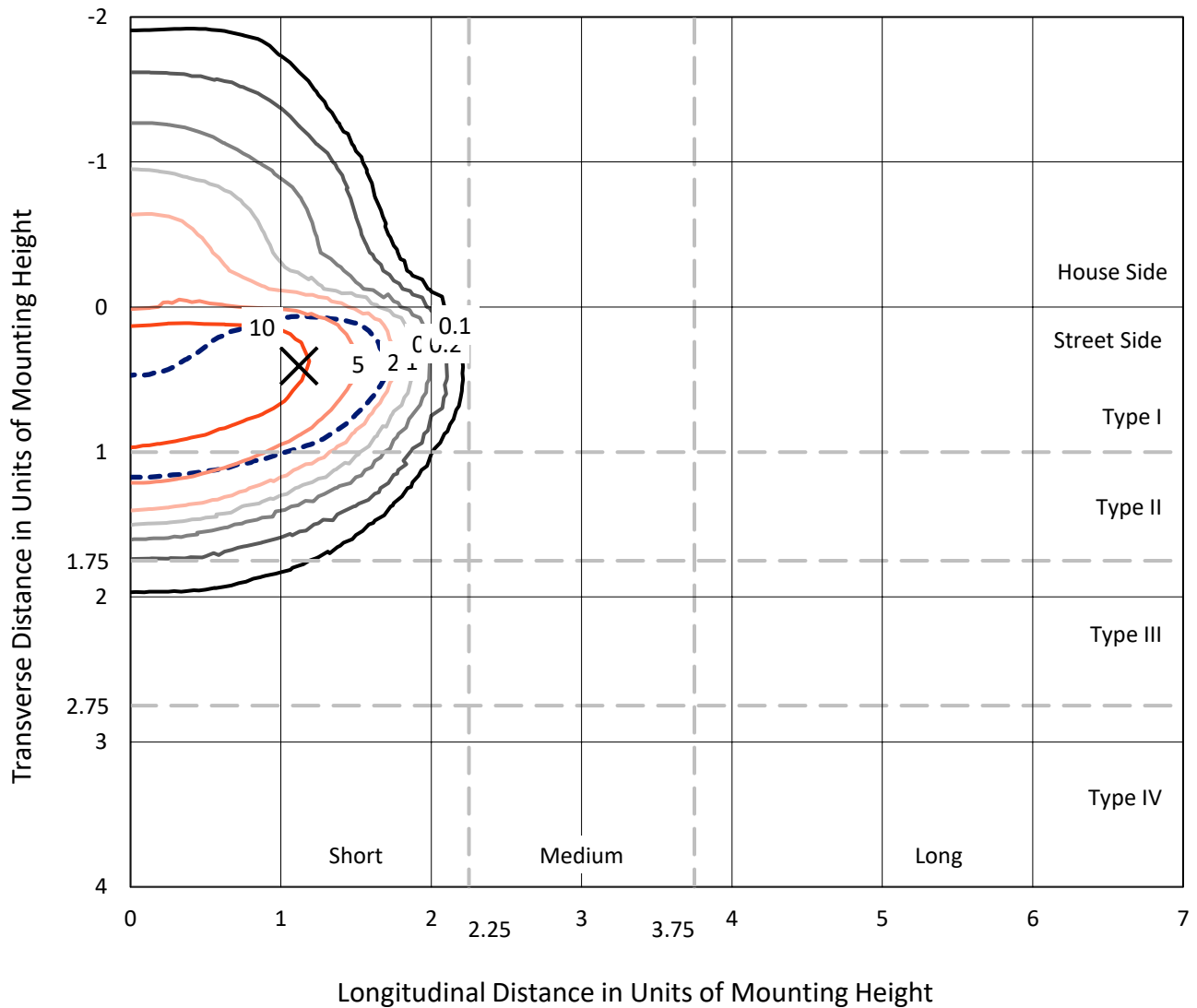
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

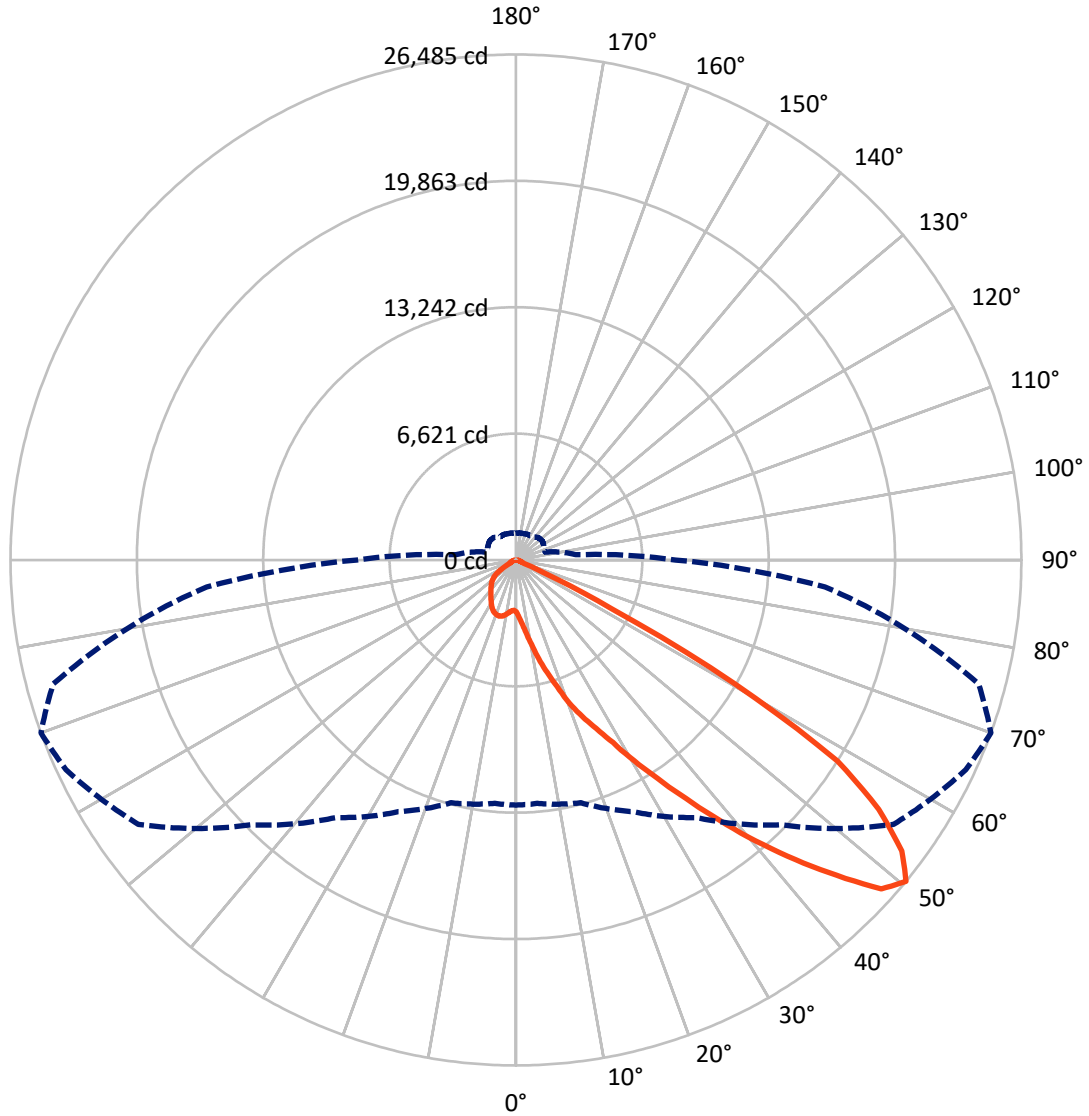
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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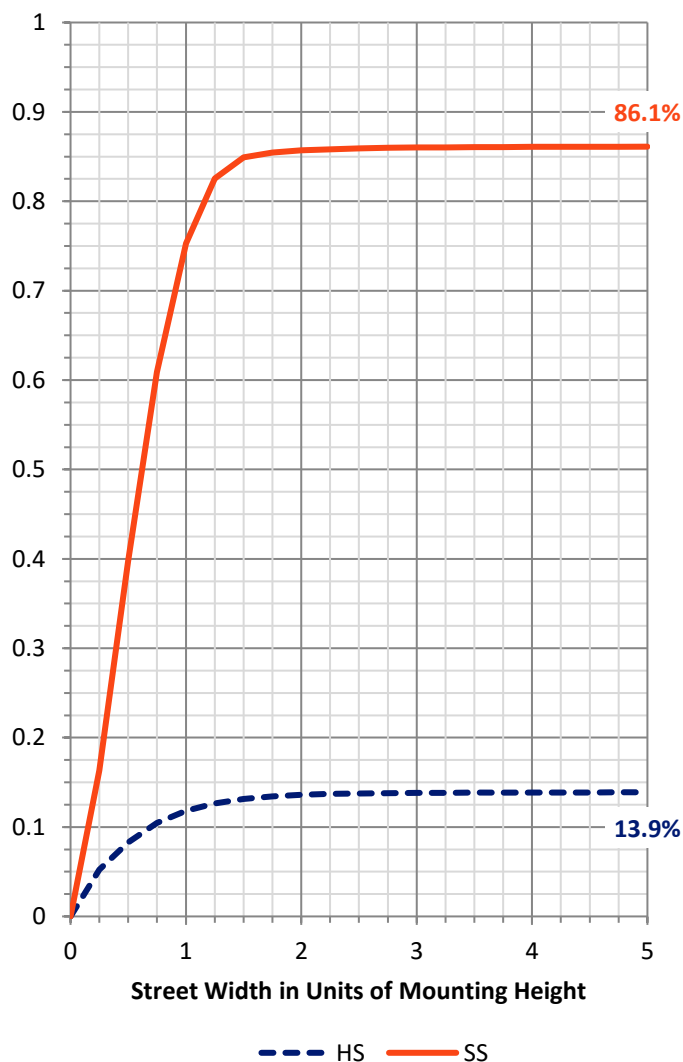
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3658.6	0.0	3658.6
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	22538.4	0.0	22538.4
	% Fixture	86.0	0.0	86.0
Total	Lumens	26197.0	0.0	26197.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.9	1.3
10°-20°	1526.3	5.8
20°-30°	3202.0	12.2
30°-40°	5519.1	21.1
40°-50°	8066.1	30.8
50°-60°	6282.2	24.0
60°-70°	1064.4	4.1
70°-80°	146.2	0.6
80°-90°	37.9	0.1
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°	26197.0	100.0
0°-180°	26197.0	100.0

Coefficient of Utilization



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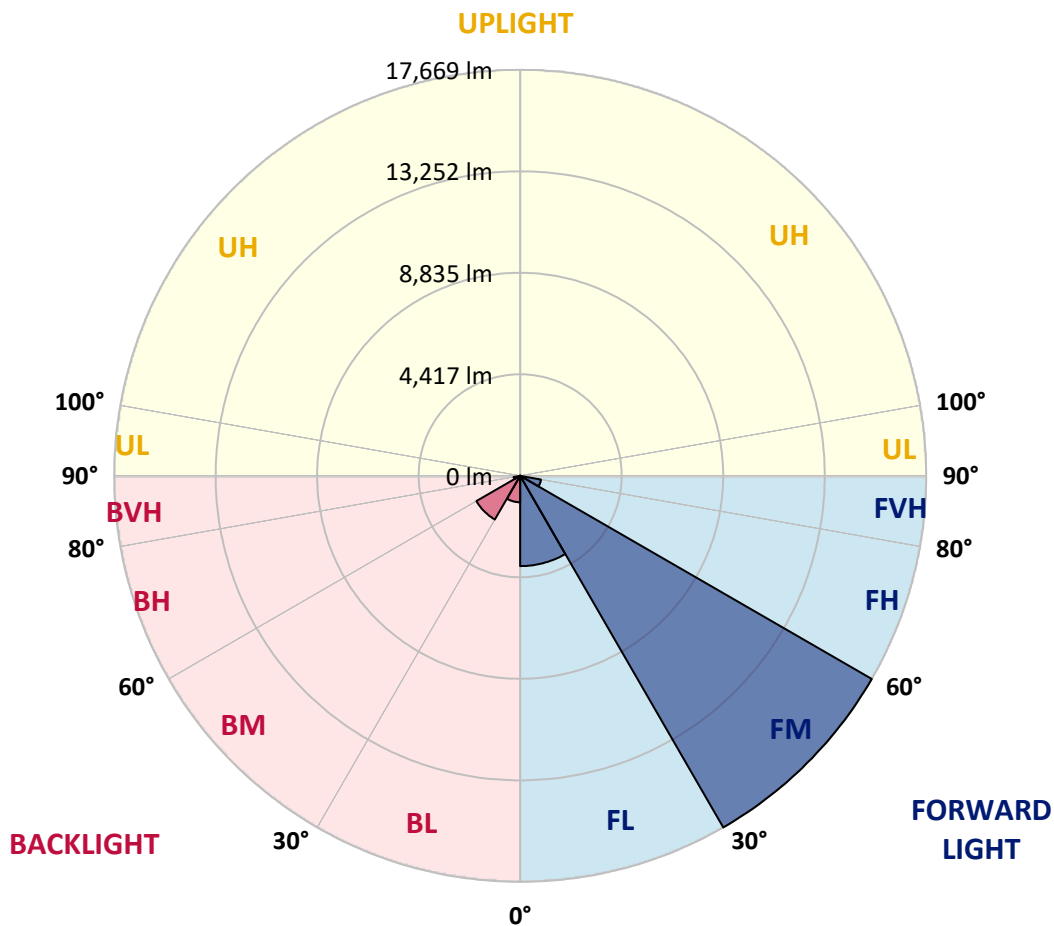
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3929.9	15.0			
FM (30°-60°)	17669.4	67.4			
FH (60°-80°)	921.6	3.5			G1/1800
FVH (80°-90°)	17.5	0.1			G1/100
BL (0°-30°)	1151.3	4.4	B3/2500		
BM (30°-60°)	2198.0	8.4	B2/2500		
BH (60°-80°)	289.0	1.1	B1/500		G1/500
BVH (80°-90°)	20.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2713.5	2713.5	2713.5	2713.5	2713.5	2713.5	2713.5	2713.5	2713.5	2713.5	2713.5
2.5°	3553.4	3527.5	3471.5	3368.2	3325.1	3221.7	3161.4	3045.1	2971.9	2890.1	2799.6
5°	5004.9	4871.4	4789.5	4673.2	4333.0	4121.9	3773.0	3475.9	3338.0	3187.3	2980.5
7.5°	6503.8	6417.6	6305.6	6055.8	5823.2	5383.9	4785.2	4130.5	3850.6	3592.1	3183.0
10°	7744.2	7503.0	7490.1	7304.9	7050.8	6525.3	5806.0	4992.0	4492.3	4113.3	3471.5
12.5°	8610.0	8390.3	8489.4	8467.8	8230.9	7748.5	6917.3	5840.5	5319.3	4729.2	3768.7
15°	9398.2	9307.7	9277.6	9251.7	9157.0	8799.5	8054.3	6874.2	6120.4	5409.8	4104.7
17.5°	10169.1	9936.6	10048.5	10070.1	10061.5	9738.4	9040.7	7856.2	6968.9	6129.0	4457.9
20°	10854.0	10875.5	10724.8	10694.6	10668.8	10655.8	9975.3	8829.6	8011.3	6882.8	4918.7
22.5°	11732.6	11581.9	11715.4	11629.3	11461.3	11357.9	10836.7	9691.0	8915.8	7791.6	5388.2
25°	12770.6	12891.2	12576.8	12542.4	12357.2	11999.7	11530.2	10655.8	9785.8	8635.8	5896.5
27.5°	14049.9	13838.8	13757.0	13567.5	13231.5	13080.8	12529.4	11650.8	10836.7	9523.1	6387.5
30°	15148.2	15092.2	14683.0	14459.0	14166.2	14161.9	13390.9	12998.9	12206.4	10914.3	7063.7
32.5°	16044.1	15798.6	15647.8	15492.8	15255.9	15320.5	14670.1	14463.4	13666.5	12206.4	7860.5
35°	16642.8	16466.2	16375.7	16138.8	16069.9	16358.5	16087.1	16001.0	15346.3	14024.0	8795.2
37.5°	16832.3	16888.3	16871.0	16573.8	16720.3	17499.9	17848.8	17624.8	17280.2	15940.7	9807.3
40°	17000.3	17039.0	16952.9	17301.8	17719.5	18606.8	19868.8	19498.4	19369.2	17883.2	11215.8
42.5°	17095.0	17064.9	17064.9	17667.9	18301.0	20084.2	21819.9	21574.4	21475.4	19950.6	12843.9
45°	16685.8	16392.9	16707.4	17525.7	18800.6	20812.1	23379.1	23719.4	23577.2	22410.0	14747.6
47.5°	15156.8	15337.7	15514.3	16608.3	18193.3	20588.1	24335.3	25493.9	25756.7	24477.4	15996.7
50°	12843.9	12805.1	13171.2	14549.5	16474.8	19623.3	24150.1	26006.5	26484.6	25097.7	16259.4
52.5°	9342.2	9626.4	10022.7	11392.4	13675.1	17125.2	21759.6	24684.2	25321.6	24335.3	16087.1
55°	5439.9	5125.5	6017.1	7175.7	9329.2	12917.1	18395.8	21880.2	23060.4	22948.4	15217.1
57.5°	2179.4	2110.5	2416.3	3256.2	4867.1	8007.0	13378.0	17978.0	19868.8	21018.8	13373.6
60°	956.2	934.6	1098.3	1326.6	1989.9	3691.2	7317.8	11181.3	13154.0	14687.3	9204.3
62.5°	689.1	680.5	762.4	844.2	1050.9	1606.6	3075.3	4505.3	5616.5	6783.7	4121.9
65°	555.6	577.2	633.1	676.2	775.3	891.6	1085.4	1253.4	1537.6	1593.6	908.8
67.5°	452.2	469.5	521.2	568.5	585.8	482.4	499.6	439.3	439.3	391.9	314.4
70°	331.6	336.0	396.3	452.2	361.8	193.8	340.3	340.3	305.8	292.9	267.0
72.5°	245.5	249.8	297.2	280.0	142.1	120.6	249.8	275.7	249.8	236.9	215.4
75°	180.9	185.2	155.1	64.6	60.3	77.5	146.4	189.5	180.9	176.6	163.7
77.5°	34.5	25.8	21.5	30.1	43.1	64.6	94.8	116.3	120.6	129.2	120.6
80°	4.3	4.3	12.9	25.8	47.4	68.9	99.1	112.0	116.3	120.6	112.0
82.5°	0.0	4.3	12.9	25.8	47.4	64.6	86.1	99.1	107.7	112.0	107.7
85°	0.0	4.3	8.6	21.5	38.8	47.4	43.1	30.1	25.8	30.1	21.5
87.5°	0.0	0.0	4.3	4.3	8.6	8.6	8.6	8.6	8.6	8.6	8.6
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°	2713.5	2713.5	2713.5	2713.5	2713.5	2713.5	2713.5	2713.5	2713.5	2713.5	2713.5
2.5°	2748.0	2730.7	2670.4	2605.8	2549.8	2575.7	2549.8	2528.3	2536.9	2528.3	2519.7
5°	2898.7	2821.2	2692.0	2636.0	2588.6	2584.3	2571.4	2567.1	2571.4	2571.4	2532.6
7.5°	3040.8	2915.9	2778.1	2717.8	2661.8	2666.1	2636.0	2636.0	2631.7	2610.1	2601.5
10°	3256.2	3088.2	2911.6	2803.9	2735.0	2722.1	2692.0	2661.8	2661.8	2661.8	2618.7
12.5°	3493.1	3282.0	3040.8	2915.9	2834.1	2769.5	2722.1	2713.5	2666.1	2657.5	2636.0
15°	3699.8	3432.8	3127.0	2954.7	2851.3	2765.2	2692.0	2644.6	2623.0	2610.1	2592.9
17.5°	3902.3	3562.0	3174.4	2954.7	2842.7	2743.6	2666.1	2623.0	2571.4	2580.0	2545.5
20°	4173.6	3699.8	3187.3	2898.7	2760.9	2666.1	2562.7	2541.2	2511.1	2485.2	2493.8
22.5°	4436.3	3798.9	3148.5	2829.8	2631.7	2519.7	2468.0	2442.1	2429.2	2407.7	2377.5
25°	4673.2	3906.6	3088.2	2704.9	2493.8	2412.0	2364.6	2360.3	2330.2	2330.2	2274.2
27.5°	4914.4	3945.3	2984.8	2558.4	2373.2	2325.9	2304.3	2295.7	2282.8	2252.6	2213.9
30°	5190.1	3958.3	2834.1	2407.7	2265.6	2213.9	2244.0	2265.6	2209.6	2153.6	2170.8
32.5°	5418.4	3928.1	2653.2	2265.6	2188.0	2162.2	2222.5	2244.0	2179.4	2119.1	2089.0
35°	5694.0	3854.9	2476.6	2153.6	2110.5	2162.2	2213.9	2213.9	2084.7	2011.4	1994.2
37.5°	6111.8	3773.0	2312.9	2058.8	2028.7	2136.3	2205.3	2157.9	1955.4	1865.0	1843.5
40°	6559.8	3721.4	2153.6	1964.1	1985.6	2093.3	2132.0	1985.6	1778.8	1722.9	1705.6
42.5°	7210.1	3618.0	2011.4	1882.2	1946.8	2033.0	2033.0	1770.2	1692.7	1662.6	1658.2
45°	8019.9	3544.8	1886.5	1813.3	1890.8	1912.4	1843.5	1658.2	1602.3	1593.6	1597.9
47.5°	8416.1	3402.6	1757.3	1731.5	1787.5	1791.8	1610.9	1567.8	1520.4	1507.5	1498.9
50°	8355.8	3148.5	1589.3	1623.8	1701.3	1658.2	1468.7	1477.3	1434.3	1430.0	1408.4
52.5°	7933.7	2748.0	1421.4	1503.2	1589.3	1464.4	1352.4	1343.8	1343.8	1287.8	1266.3
55°	7033.5	2213.9	1218.9	1322.3	1425.7	1231.8	1201.7	1193.1	1171.5	1119.9	1106.9
57.5°	5569.1	1623.8	917.4	1029.4	1210.3	1046.6	1042.3	1003.6	947.6	908.8	908.8
60°	3312.2	934.6	577.2	628.8	801.1	848.5	943.3	926.0	831.3	771.0	753.7
62.5°	1511.8	482.4	366.1	374.7	430.7	551.3	740.8	857.1	723.6	620.2	611.6
65°	508.2	357.5	301.5	288.6	297.2	331.6	443.6	607.3	577.2	478.1	460.9
67.5°	310.1	318.7	284.3	262.7	262.7	258.4	254.1	275.7	340.3	331.6	336.0
70°	267.0	292.9	262.7	236.9	228.3	215.4	180.9	150.7	129.2	150.7	159.4
72.5°	215.4	232.6	224.0	202.4	180.9	163.7	129.2	99.1	73.2	64.6	64.6
75°	159.4	172.3	180.9	155.1	137.8	116.3	94.8	64.6	38.8	25.8	25.8
77.5°	116.3	129.2	133.5	120.6	103.4	81.8	60.3	43.1	21.5	8.6	8.6
80°	99.1	116.3	129.2	120.6	107.7	77.5	56.0	30.1	17.2	4.3	4.3
82.5°	94.8	116.3	129.2	116.3	103.4	73.2	56.0	34.5	12.9	4.3	4.3
85°	21.5	30.1	38.8	47.4	56.0	56.0	43.1	25.8	12.9	4.3	4.3
87.5°	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	4.3	4.3	0.0
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)