

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: P527921

Luminaire Tested: **GALN-SA3A-727-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527921
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-727-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6677 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

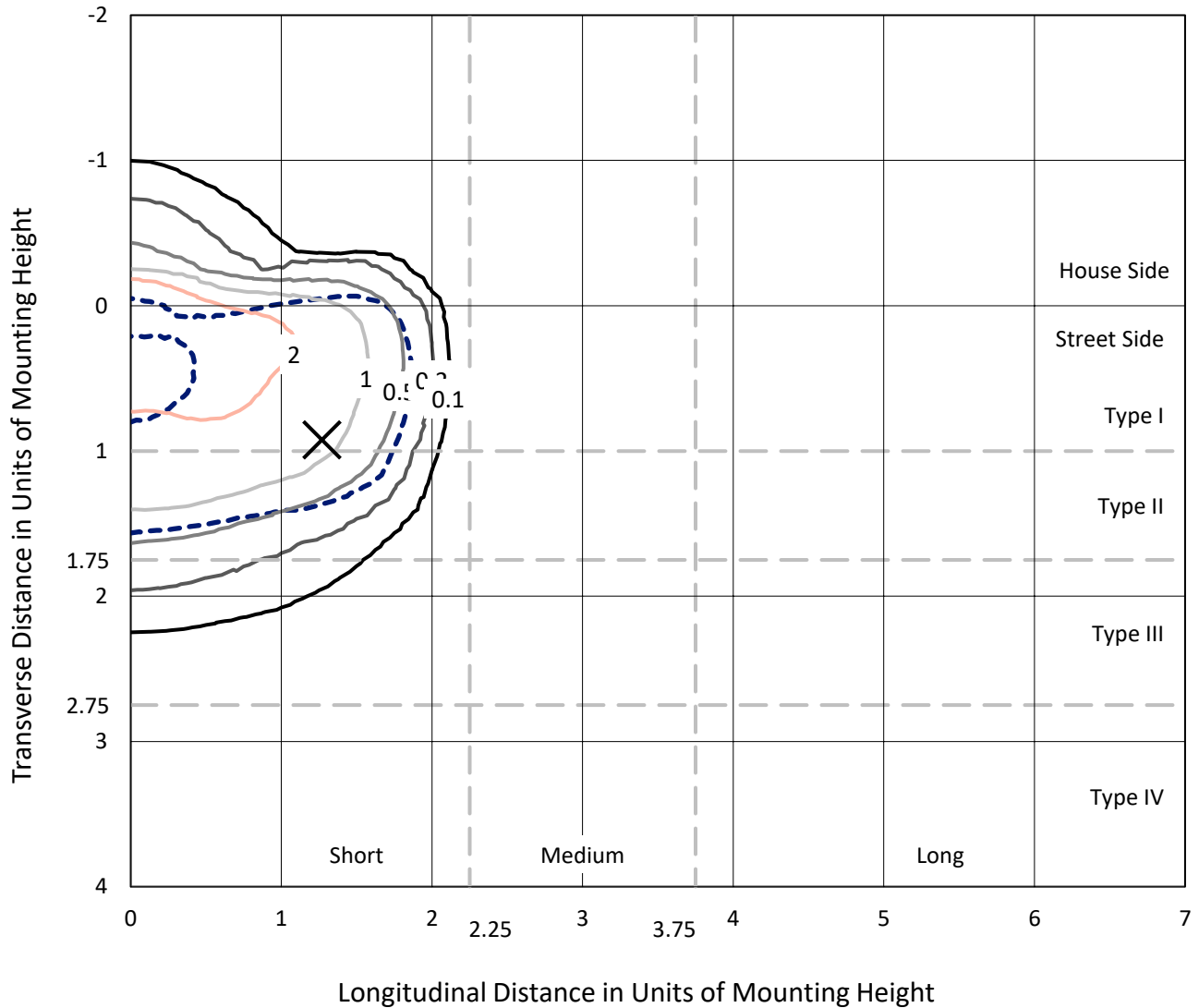
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

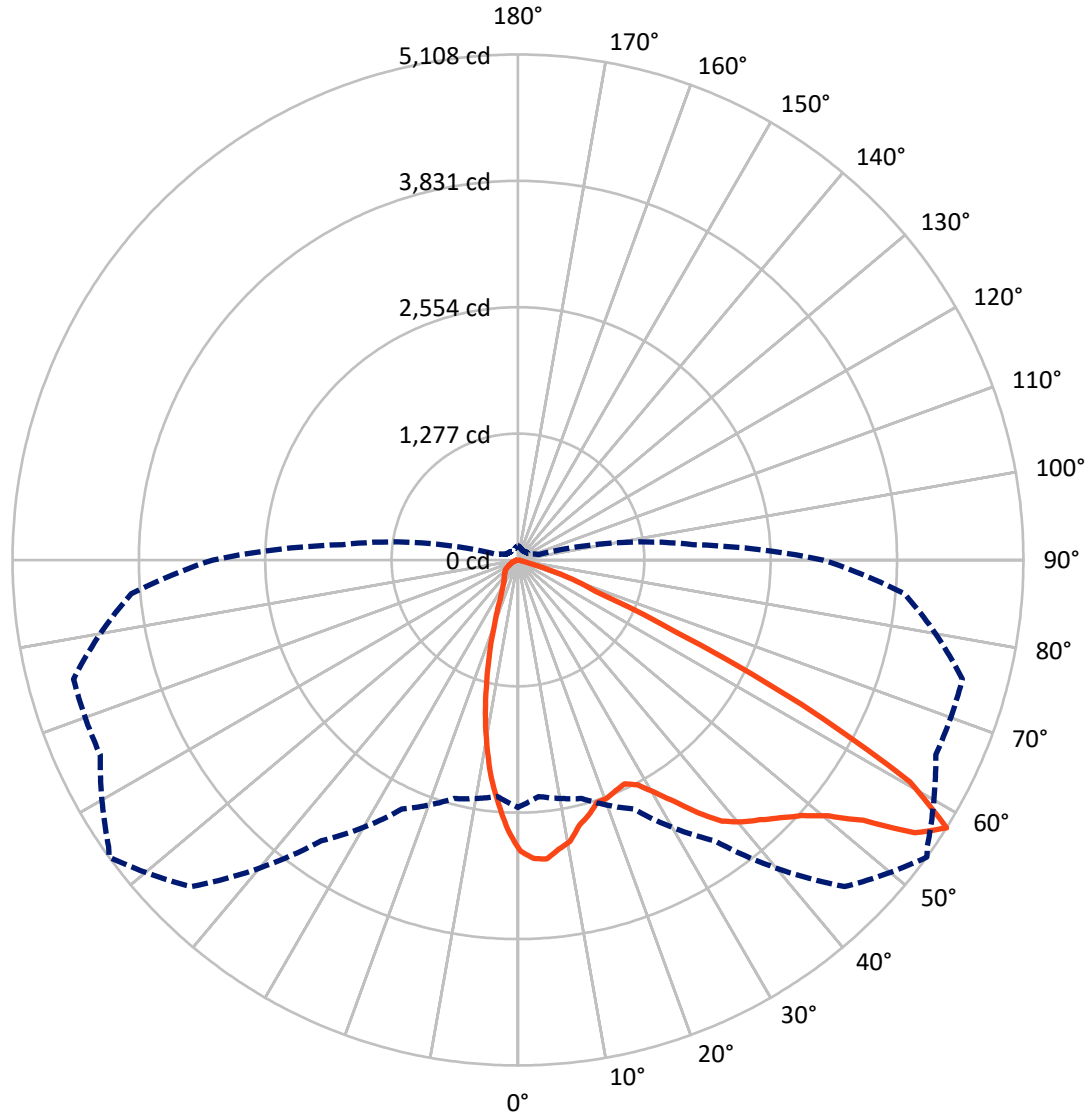
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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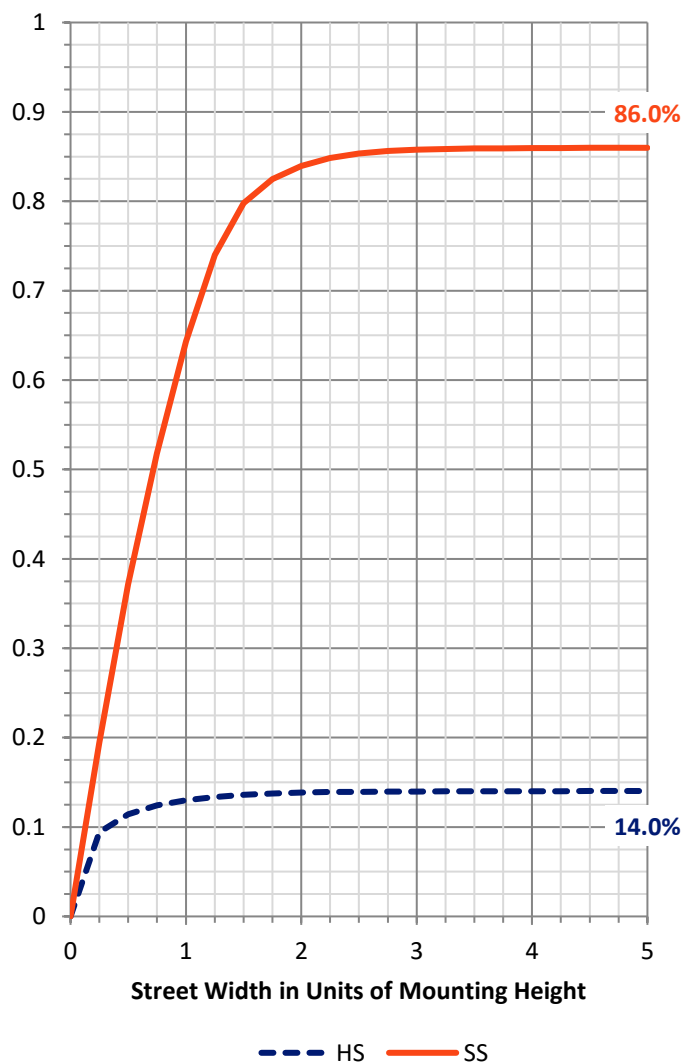
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	943.6	0.0	943.6
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	5733.4	0.0	5733.4
	% Fixture	85.9	0.0	85.9
Total	Lumens	6677.0	0.0	6677.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.1	3.7
10°-20°	525.5	7.9
20°-30°	696.4	10.4
30°-40°	1012.0	15.2
40°-50°	1500.7	22.5
50°-60°	1876.6	28.1
60°-70°	740.2	11.1
70°-80°	73.7	1.1
80°-90°	5.7	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°	6677.0	100.0
0°-180°	6677.0	100.0

Coefficient of Utilization



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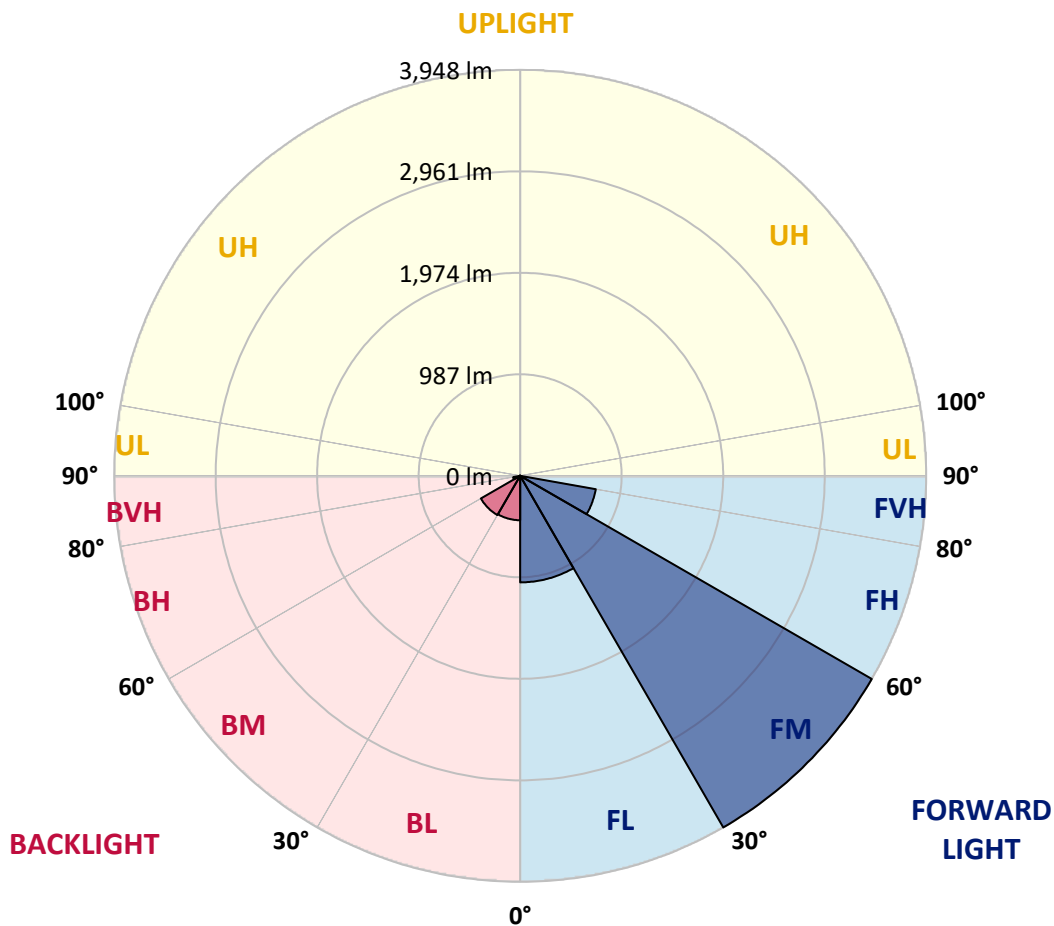
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1036.5	15.5			
FM (30°-60°)	3948.1	59.1			
FH (60°-80°)	746.3	11.2			G1/1800
FVH (80°-90°)	2.6	0.0			G0/10
BL (0°-30°)	431.5	6.5	B1/500		
BM (30°-60°)	441.2	6.6	B1/1000		
BH (60°-80°)	67.7	1.0	B0/110		G0/110
BVH (80°-90°)	3.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2941.3	2941.3	2941.3	2941.3	2941.3	2941.3	2941.3	2941.3	2941.3	2941.3	2941.3
2.5°	3112.6	3080.4	3082.8	3071.7	3056.8	3067.9	3019.5	3030.7	3029.5	2963.7	2920.2
5°	3034.4	3069.2	3033.2	3063.0	3034.4	3065.5	3035.7	3013.3	2977.3	2928.9	2848.2
7.5°	2901.6	2868.1	2878.0	2915.2	2921.4	2991.0	2953.7	2982.3	2967.4	2871.8	2761.3
10°	2634.6	2627.2	2676.9	2726.5	2787.4	2861.8	2890.4	2874.3	2863.1	2827.1	2679.3
12.5°	2429.8	2450.9	2449.6	2531.6	2634.6	2676.9	2751.3	2748.9	2810.9	2743.9	2602.4
15°	2234.8	2246.0	2298.2	2349.1	2463.3	2583.7	2675.6	2688.0	2762.5	2715.3	2542.8
17.5°	2115.7	2099.5	2140.5	2201.3	2318.0	2475.7	2577.5	2607.3	2709.1	2699.2	2474.5
20°	1997.7	1997.7	2031.2	2103.2	2210.0	2387.6	2568.8	2560.1	2709.1	2680.6	2401.2
22.5°	1958.0	1977.8	1986.5	2041.2	2167.8	2320.5	2531.6	2547.7	2730.2	2671.9	2368.9
25°	2012.6	1986.5	1989.0	2032.5	2151.7	2288.2	2504.3	2540.3	2768.7	2715.3	2342.9
27.5°	2021.3	2047.4	2054.8	2084.6	2164.1	2298.2	2572.6	2645.8	2864.3	2817.2	2350.3
30°	2097.0	2123.1	2121.9	2172.8	2227.4	2378.9	2725.3	2740.2	3061.7	2945.0	2396.3
32.5°	2188.9	2216.2	2224.9	2284.5	2328.0	2526.6	2911.5	2950.0	3251.7	3146.2	2516.7
35°	2303.1	2293.2	2332.9	2392.5	2485.6	2742.7	3138.7	3203.3	3456.6	3406.9	2640.8
37.5°	2445.9	2433.5	2472.0	2568.8	2695.5	2998.4	3348.5	3390.8	3605.6	3649.0	2870.5
40°	2546.5	2551.5	2668.2	2798.5	2932.6	3241.8	3481.4	3522.4	3709.8	3875.0	3044.4
42.5°	2714.1	2745.1	2885.4	3044.4	3184.7	3424.3	3589.4	3629.1	3758.3	4056.2	3279.0
45°	2957.4	2943.8	3099.0	3276.5	3431.7	3614.2	3717.3	3703.6	3786.8	4236.3	3426.8
47.5°	3270.3	3272.8	3375.9	3527.3	3688.7	3779.4	3860.1	3811.7	3846.4	4426.2	3624.2
50°	3483.9	3502.5	3585.7	3740.9	3821.6	3960.6	4063.7	4033.9	4022.7	4540.5	3748.3
52.5°	3538.5	3594.4	3639.1	3832.8	4021.5	4241.2	4372.9	4436.2	4237.5	4579.0	3906.0
55°	3126.3	3176.0	3333.6	3599.3	4097.2	4685.7	4867.0	4868.2	4518.1	4750.3	4016.5
57.5°	2499.3	2398.7	2495.6	2777.4	3464.0	4667.1	5107.9	5049.5	4658.4	4649.7	3920.9
60°	1728.3	1703.5	1709.7	1821.4	2397.5	3712.3	4551.6	4627.4	4289.7	4030.2	3104.0
62.5°	1369.5	1348.4	1321.0	1308.6	1488.7	2313.1	3210.7	3317.5	2999.7	2613.5	1840.0
65°	1072.7	1060.3	1064.0	1113.7	1112.5	1312.4	1755.6	1712.1	1370.7	1013.1	578.6
67.5°	723.8	742.5	757.4	907.6	984.6	913.8	848.0	823.2	445.7	187.5	127.9
70°	407.2	409.7	425.9	567.4	747.4	708.9	584.8	584.8	222.2	68.3	73.3
72.5°	222.2	214.8	199.9	244.6	332.7	337.7	260.7	227.2	65.8	44.7	41.0
75°	108.0	106.8	91.9	75.7	72.0	59.6	45.9	42.2	29.8	28.6	24.8
77.5°	22.3	21.1	11.2	11.2	12.4	13.7	17.4	17.4	21.1	21.1	17.4
80°	0.0	0.0	1.2	5.0	8.7	12.4	14.9	14.9	17.4	17.4	13.7
82.5°	0.0	0.0	1.2	3.7	7.4	11.2	13.7	14.9	17.4	18.6	14.9
85°	0.0	0.0	0.0	2.5	6.2	8.7	7.4	7.4	6.2	5.0	2.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2941.3	2941.3	2941.3	2941.3	2941.3	2941.3	2941.3	2941.3	2941.3	2941.3	2941.3
2.5°	2897.9	2895.4	2838.3	2806.0	2747.6	2696.7	2655.7	2625.9	2625.9	2607.3	2589.9
5°	2815.9	2794.8	2673.1	2594.9	2484.4	2402.5	2346.6	2303.1	2234.8	2253.5	2180.2
7.5°	2714.1	2660.7	2499.3	2380.1	2227.4	2110.7	1991.5	1886.0	1784.2	1738.2	1763.0
10°	2604.8	2511.7	2294.4	2105.7	1915.8	1702.2	1563.2	1394.3	1290.0	1283.8	1256.5
12.5°	2489.4	2383.8	2119.4	1858.6	1609.1	1352.1	1139.8	982.1	911.3	833.1	848.0
15°	2402.5	2246.0	1924.5	1610.3	1278.8	1019.3	805.8	684.1	617.1	598.4	592.2
17.5°	2308.1	2140.5	1725.8	1345.9	1003.2	733.8	579.8	521.5	495.4	495.4	491.7
20°	2210.0	2021.3	1528.4	1100.0	752.4	547.5	464.4	445.7	444.5	443.2	443.2
22.5°	2145.5	1884.7	1349.6	874.1	567.4	438.3	403.5	396.1	401.0	415.9	415.9
25°	2077.2	1753.1	1152.2	674.2	439.5	376.2	356.3	361.3	373.7	387.4	382.4
27.5°	2007.6	1667.4	966.0	528.9	360.1	329.0	321.6	332.7	346.4	358.8	355.1
30°	1991.5	1575.6	789.6	401.0	309.2	286.8	291.8	301.7	315.4	320.3	325.3
32.5°	2016.3	1503.6	646.9	329.0	269.4	263.2	263.2	268.2	276.9	288.0	284.3
35°	2087.1	1462.6	511.5	285.6	247.1	240.9	239.6	244.6	249.6	253.3	249.6
37.5°	2195.1	1430.3	418.4	253.3	232.2	222.2	219.8	218.5	223.5	224.7	227.2
40°	2332.9	1447.7	355.1	233.4	217.3	206.1	198.7	198.7	198.7	202.4	203.6
42.5°	2481.9	1471.3	306.7	222.2	203.6	190.0	182.5	180.0	182.5	187.5	186.2
45°	2638.4	1517.2	275.6	204.9	191.2	173.8	163.9	161.4	167.6	177.5	176.3
47.5°	2784.9	1583.0	252.0	193.7	178.8	162.6	150.2	147.7	158.9	172.6	173.8
50°	2931.4	1697.2	243.4	185.0	170.1	151.5	140.3	137.8	150.2	167.6	171.3
52.5°	3100.2	1820.2	237.1	173.8	160.2	142.8	130.4	127.9	141.5	163.9	165.1
55°	3210.7	1924.5	232.2	154.0	141.5	129.1	119.2	118.0	132.8	152.7	157.7
57.5°	3081.6	1779.2	214.8	134.1	120.4	114.2	105.5	105.5	118.0	136.6	140.3
60°	2336.7	1170.8	152.7	108.0	101.8	98.1	94.4	94.4	104.3	118.0	119.2
62.5°	1368.2	630.7	98.1	86.9	86.9	83.2	77.0	77.0	86.9	94.4	95.6
65°	406.0	202.4	79.5	74.5	73.3	67.0	60.8	59.6	67.0	70.8	69.5
67.5°	116.7	93.1	65.8	62.1	60.8	50.9	47.2	45.9	47.2	44.7	43.5
70°	69.5	63.3	50.9	52.1	45.9	37.2	33.5	32.3	29.8	26.1	23.6
72.5°	38.5	38.5	37.2	39.7	32.3	24.8	21.1	17.4	13.7	11.2	9.9
75°	23.6	24.8	26.1	27.3	21.1	16.1	13.7	8.7	5.0	2.5	2.5
77.5°	16.1	17.4	18.6	19.9	17.4	14.9	11.2	6.2	1.2	0.0	0.0
80°	12.4	13.7	16.1	17.4	18.6	19.9	14.9	6.2	1.2	0.0	0.0
82.5°	13.7	14.9	18.6	17.4	17.4	17.4	13.7	6.2	1.2	0.0	0.0
85°	2.5	3.7	6.2	6.2	8.7	11.2	8.7	2.5	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)