

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: P530100

Luminaire Tested: **GALN-SA5B-740-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530100  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5B-740-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25713 lumens  
Efficiency: N/A  
Efficacy: 126.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

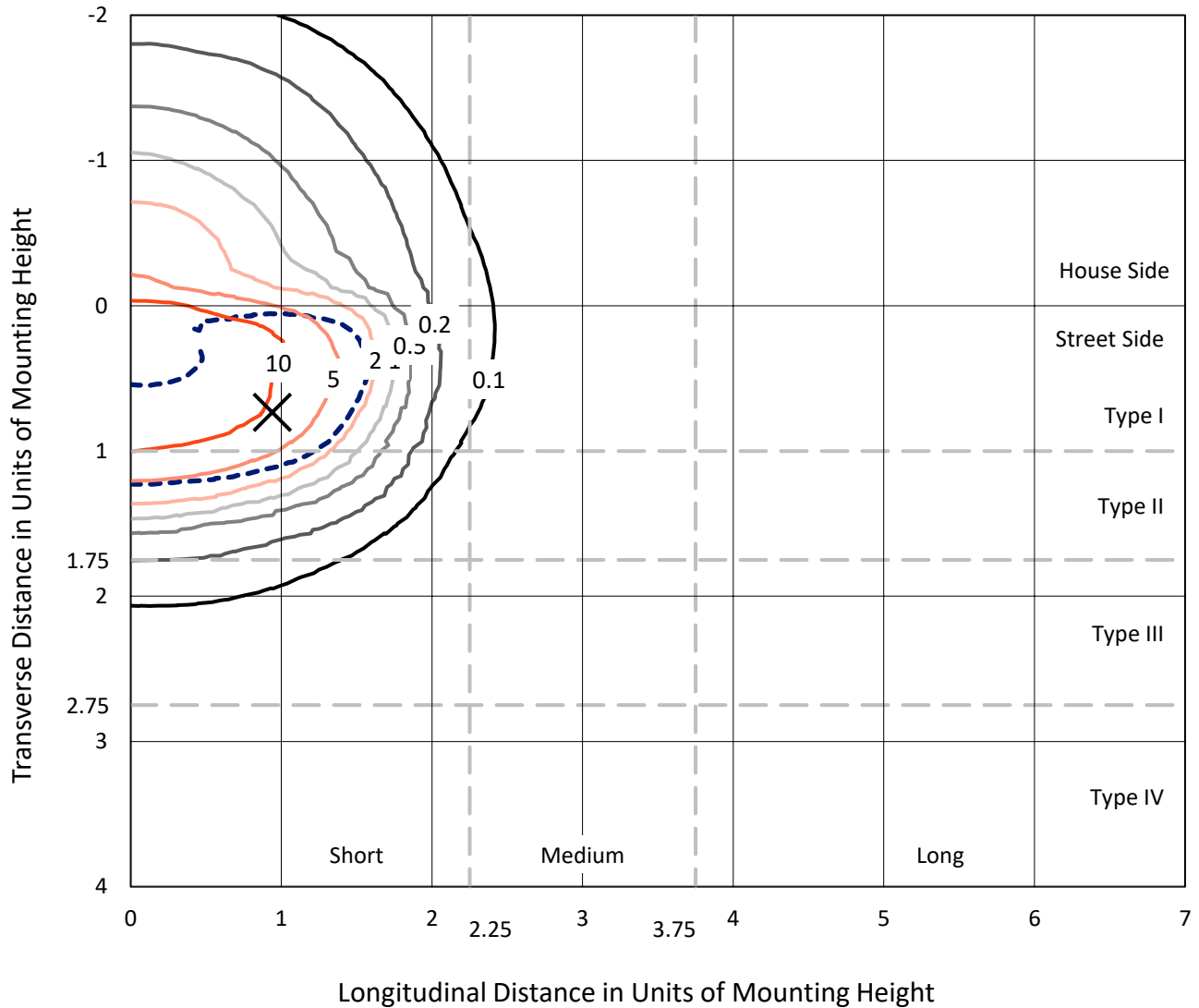
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

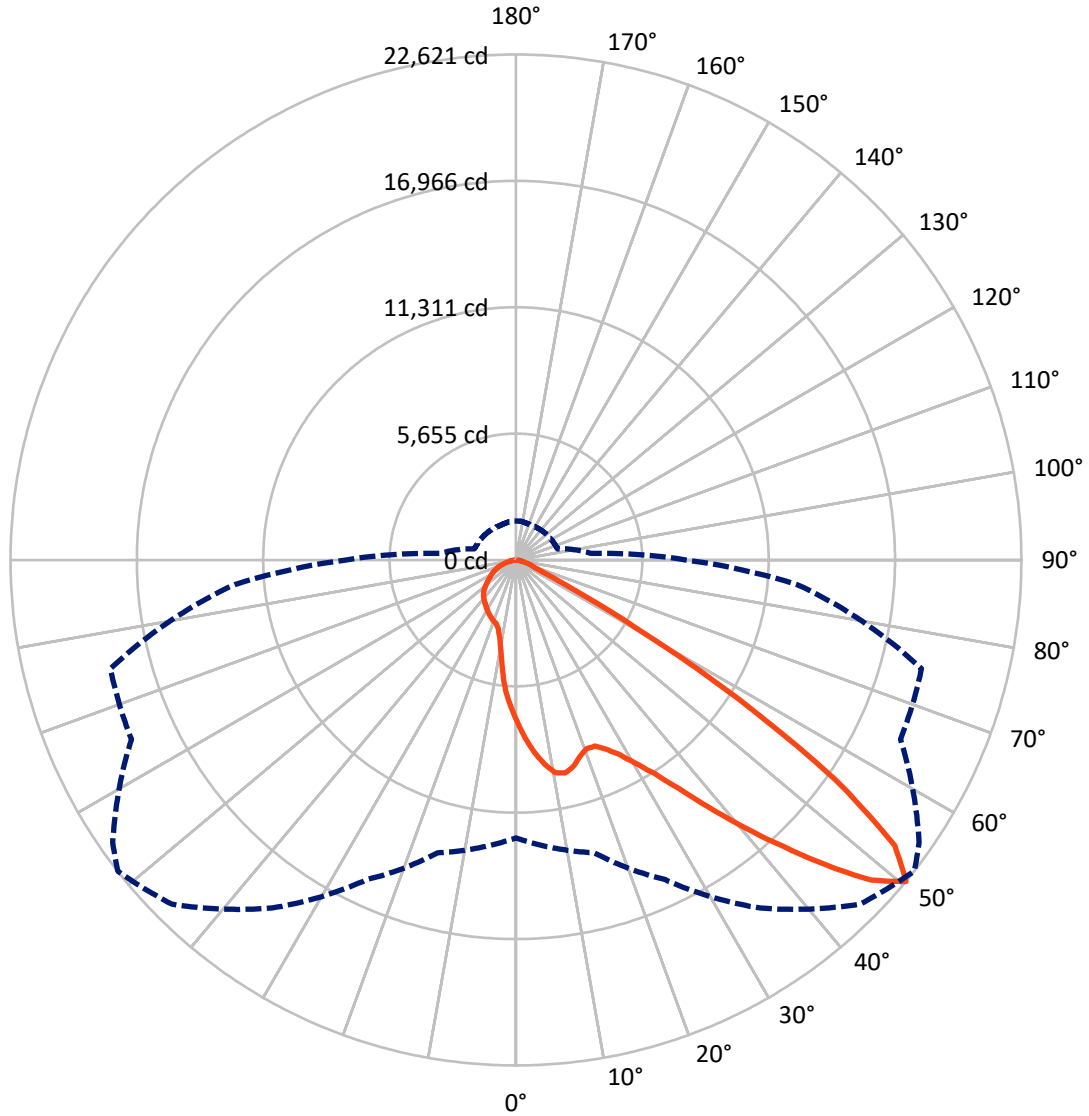
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4833.4	0.0	4833.4
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	20879.6	0.0	20879.6
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	25713.0	0.0	25713.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	668.1	2.6
10°-20°	1790.5	7.0
20°-30°	3016.1	11.7
30°-40°	5061.3	19.7
40°-50°	7742.5	30.1
50°-60°	5644.9	22.0
60°-70°	1256.3	4.9
70°-80°	453.1	1.8
80°-90°	80.2	0.3
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°	25713.0	100.0
0°-180°	25713.0	100.0

**Coefficient of Utilization**

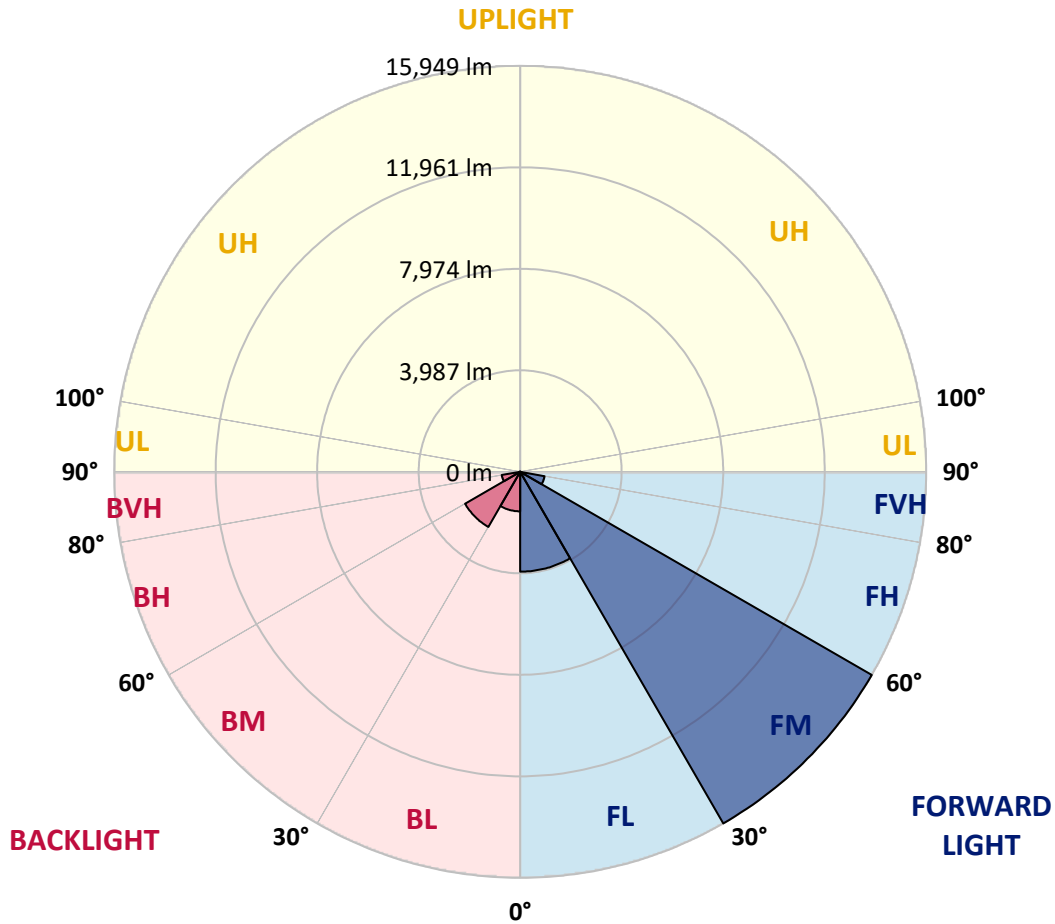


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3922.1	15.3			
FM (30°-60°)	15948.5	62.0			
FH (60°-80°)	973.0	3.8			G1/1800
FVH (80°-90°)	35.9	0.1			G1/100
BL (0°-30°)	1552.6	6.0	B3/2500		
BM (30°-60°)	2500.2	9.7	B3/5000		
BH (60°-80°)	736.4	2.9	B2/1000		G2/1000
BVH (80°-90°)	44.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	7248.1	7248.1	7248.1	7248.1	7248.1	7248.1	7248.1	7248.1	7248.1	7248.1	7248.1
2.5°	8534.1	8369.8	8388.4	8270.7	8143.6	8106.4	7976.3	7852.3	7759.4	7561.0	7378.2
5°	9327.4	9277.8	9203.4	9110.4	9014.4	8778.9	8645.6	8490.7	8149.8	7843.0	7539.4
7.5°	9442.0	9432.7	9473.0	9473.0	9507.1	9417.2	9228.2	9119.7	8757.2	8258.3	7694.3
10°	8636.3	8664.2	8859.4	9113.5	9466.8	9711.6	9680.6	9652.7	9256.1	8574.4	7877.1
12.5°	7994.9	7932.9	8047.6	8264.5	8794.4	9386.2	9786.0	9789.1	9686.8	9079.5	8010.4
15°	7632.3	7675.7	7706.7	7808.9	8208.7	8893.5	9597.0	9804.6	10253.9	9435.8	8221.1
17.5°	7864.7	7719.1	7712.9	7737.7	7942.2	8456.6	9246.8	9603.1	10563.8	9894.4	8481.4
20°	8168.4	8165.3	8078.5	8047.6	8044.5	8503.1	9017.5	9500.9	10728.0	10489.4	8744.8
22.5°	8701.4	8701.4	8558.9	8490.7	8345.0	8720.0	9048.5	9376.9	11000.7	10898.4	8871.8
25°	9593.9	9448.2	9203.4	9036.1	8952.4	9085.7	9376.9	9671.3	11239.3	11332.3	9135.2
27.5°	10418.1	10188.8	10068.0	9779.8	9668.2	9590.8	9857.2	10154.7	11518.2	12007.8	9277.8
30°	11354.0	11313.7	11096.8	10724.9	10449.1	10306.6	10551.4	10845.8	12029.5	12698.8	9606.2
32.5°	13027.3	12661.7	12367.3	11911.7	11462.4	11158.7	11400.4	11595.7	12878.6	13420.9	9965.7
35°	14833.9	14716.2	14207.9	13386.8	12698.8	12426.1	12568.7	12714.3	13867.1	14524.0	10570.0
37.5°	16609.5	16448.4	16030.0	15339.0	14502.3	13947.7	14049.9	14220.3	14976.4	16011.4	11307.5
40°	17886.2	17687.9	17477.2	17374.9	16544.4	15785.2	15726.4	15769.7	16476.3	17405.9	12125.6
42.5°	17979.2	18224.0	18289.1	18701.2	18506.0	17883.1	17520.6	17529.9	17907.9	18784.9	12952.9
45°	17784.0	17557.7	18038.1	19162.9	19807.5	20098.7	19488.3	19410.8	18794.2	19584.3	13365.1
47.5°	15735.7	15797.6	16609.5	18388.2	20250.6	21552.1	21409.5	21152.3	19268.3	19556.5	13300.0
50°	12438.5	12813.5	13566.5	15782.1	19011.1	21781.4	22621.2	22026.2	18986.3	18788.0	12636.9
52.5°	8283.1	8438.0	8933.8	11794.0	15286.3	19469.7	21226.7	21363.1	18726.0	17780.9	11797.1
55°	3687.6	3675.2	4372.4	6160.4	9590.8	14815.3	17343.9	18174.4	17725.1	16755.2	10979.0
57.5°	1561.8	1614.5	1899.6	2661.9	4716.4	8940.0	11750.6	12478.8	13631.6	13758.6	8422.5
60°	1056.7	1062.9	1140.4	1332.5	1973.9	4198.9	6163.5	7037.4	7861.6	7805.9	4468.5
62.5°	830.5	852.2	911.0	988.5	1171.3	1905.8	2757.9	3244.4	3297.1	2773.4	1695.0
65°	709.6	712.7	771.6	836.7	917.2	1109.4	1329.4	1354.2	1369.7	1320.1	1245.7
67.5°	585.7	591.9	638.4	712.7	787.1	849.1	911.0	942.0	1013.3	1152.7	1134.2
70°	464.8	474.1	514.4	576.4	644.5	681.7	759.2	787.1	852.2	960.6	1004.0
72.5°	353.3	356.4	390.4	433.8	495.8	533.0	598.1	629.1	672.4	765.4	805.7
75°	254.1	263.4	288.2	309.9	319.2	344.0	405.9	440.0	502.0	542.3	545.4
77.5°	133.2	139.4	145.6	145.6	176.6	223.1	263.4	282.0	325.4	356.4	340.9
80°	52.7	55.8	71.3	96.1	124.0	161.1	189.0	198.3	235.5	254.1	263.4
82.5°	31.0	34.1	46.5	68.2	89.9	114.7	136.3	145.6	170.4	192.1	198.3
85°	15.5	18.6	27.9	43.4	58.9	71.3	68.2	65.1	65.1	62.0	65.1
87.5°	6.2	6.2	9.3	9.3	9.3	12.4	15.5	15.5	15.5	18.6	18.6
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°	7248.1	7248.1	7248.1	7248.1	7248.1	7248.1	7248.1	7248.1	7248.1	7248.1	7248.1
2.5°	7257.4	7133.4	7018.8	6808.0	6578.7	6513.7	6247.2	6151.1	6082.9	6002.4	5977.6
5°	7294.6	7130.3	6761.6	6337.0	5999.3	5565.4	5280.3	4973.6	4750.4	4694.7	4679.2
7.5°	7372.0	7090.0	6454.8	5813.3	5122.3	4533.5	4084.2	3842.5	3628.7	3616.3	3594.6
10°	7458.8	6969.2	6120.1	5113.0	4229.8	3684.5	3414.9	3309.5	3256.8	3244.4	3238.2
12.5°	7530.1	6944.4	5745.2	4431.3	3597.7	3269.2	3188.7	3179.4	3201.0	3207.2	3219.6
15°	7561.0	6845.2	5292.7	3820.8	3204.1	3083.3	3117.4	3154.6	3170.1	3210.3	3179.4
17.5°	7619.9	6718.2	4735.0	3337.4	2984.1	3005.8	3064.7	3108.1	3132.9	3160.8	3120.5
20°	7650.9	6603.5	4211.3	3049.2	2906.7	2946.9	3027.5	3061.6	3092.6	3105.0	3058.5
22.5°	7623.0	6368.0	3749.5	2816.8	2832.3	2885.0	2956.2	2993.4	2974.8	2925.3	2897.4
25°	7548.7	6036.4	3269.2	2668.1	2726.9	2819.9	2875.7	2847.8	2813.7	2785.8	2776.5
27.5°	7545.6	5630.5	2922.2	2531.7	2637.1	2764.1	2745.5	2720.7	2736.2	2714.5	2689.7
30°	7561.0	5237.0	2637.1	2454.2	2572.0	2634.0	2655.7	2630.9	2649.5	2609.2	2621.6
32.5°	7480.5	4852.7	2451.1	2364.4	2494.5	2491.4	2562.7	2581.3	2537.9	2454.2	2466.6
35°	7514.6	4542.8	2293.1	2324.1	2407.8	2407.8	2463.5	2441.8	2327.2	2277.6	2290.0
37.5°	7750.1	4239.1	2215.6	2268.3	2324.1	2348.9	2330.3	2237.3	2209.4	2209.4	2215.6
40°	7973.2	3978.8	2169.2	2255.9	2246.6	2262.1	2125.8	2135.1	2135.1	2138.2	2122.7
42.5°	8171.5	3802.2	2132.0	2181.5	2197.0	2116.5	2032.8	2023.5	2045.2	2042.1	2029.7
45°	8242.8	3656.6	2079.3	2097.9	2110.3	1977.0	1936.7	1918.2	1942.9	1952.2	1964.6
47.5°	7970.1	3535.7	2020.4	1983.2	1958.4	1871.7	1819.0	1784.9	1815.9	1868.6	1881.0
50°	7619.9	3377.7	1927.4	1856.2	1803.5	1766.3	1729.1	1695.0	1716.7	1753.9	1744.6
52.5°	7102.4	3129.8	1809.7	1735.3	1645.5	1654.8	1620.7	1602.1	1614.5	1614.5	1605.2
55°	6364.9	2572.0	1611.4	1558.7	1484.3	1509.1	1515.3	1490.5	1465.7	1487.4	1468.8
57.5°	4344.5	1815.9	1437.8	1437.8	1363.5	1397.6	1394.5	1335.6	1276.7	1282.9	1270.5
60°	2513.1	1447.1	1326.3	1313.9	1236.4	1264.3	1270.5	1230.2	1140.4	1146.6	1134.2
62.5°	1428.5	1236.4	1158.9	1140.4	1124.9	1149.7	1149.7	1097.0	1019.5	1025.7	1013.3
65°	1214.7	1146.6	1035.0	1031.9	1025.7	1031.9	1007.1	951.3	883.2	855.3	858.4
67.5°	1103.2	1059.8	951.3	923.4	904.8	901.7	855.3	802.6	771.6	746.8	743.7
70°	966.8	932.7	852.2	815.0	796.4	753.0	706.5	672.4	629.1	616.7	629.1
72.5°	765.4	762.3	731.3	691.0	650.7	616.7	576.4	529.9	489.6	480.3	458.6
75°	529.9	536.1	542.3	536.1	502.0	458.6	412.1	375.0	325.4	297.5	291.3
77.5°	347.1	356.4	365.7	353.3	331.6	291.3	260.3	213.8	176.6	154.9	151.8
80°	254.1	266.5	272.7	263.4	238.6	207.6	173.5	136.3	108.5	89.9	89.9
82.5°	195.2	207.6	213.8	198.3	173.5	148.7	124.0	96.1	74.4	58.9	55.8
85°	68.2	65.1	77.5	80.6	96.1	89.9	74.4	55.8	43.4	31.0	27.9
87.5°	18.6	18.6	21.7	21.7	18.6	15.5	15.5	15.5	12.4	9.3	9.3
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)