

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: P531217

Luminaire Tested: **GALN-SA6C-730-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531217
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-730-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28323 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

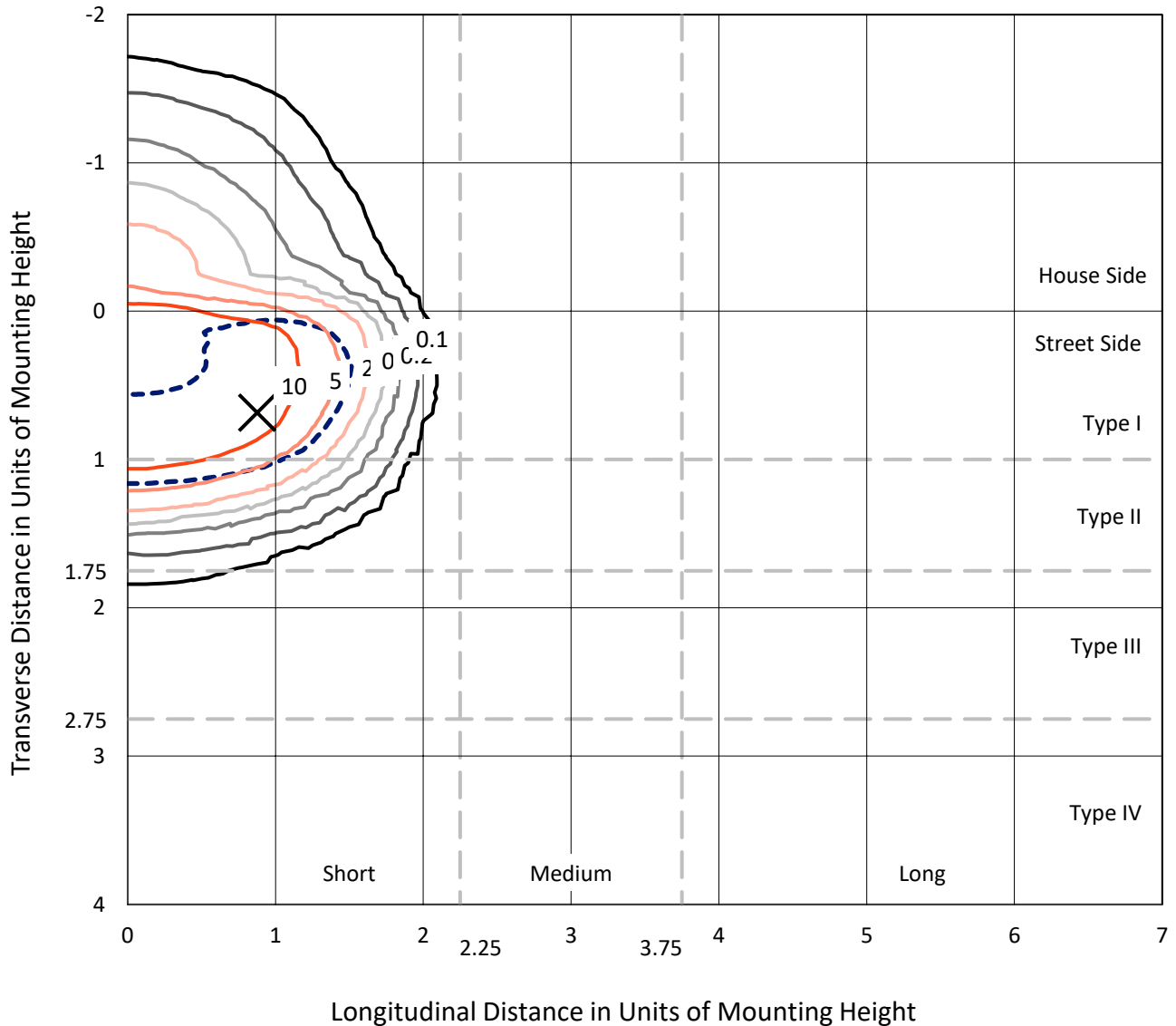
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

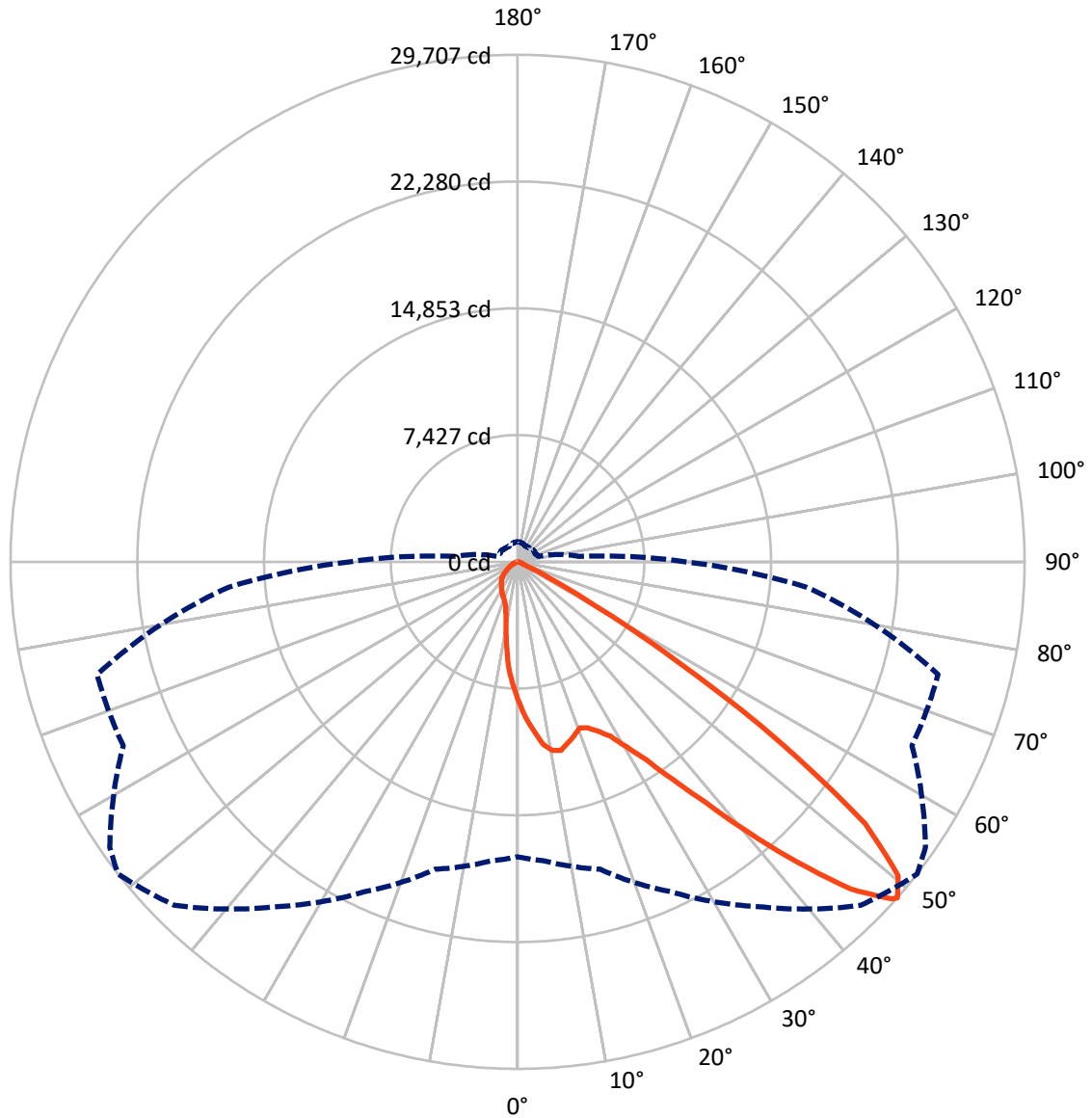
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3448.6	0.0	3448.6
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	24874.5	0.0	24874.5
	% Fixture	87.8	0.0	87.8
Total	Lumens	28323.0	0.0	28323.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	748.6	2.6
10°-20°	1956.4	6.9
20°-30°	3340.5	11.8
30°-40°	6151.4	21.7
40°-50°	9553.2	33.7
50°-60°	5749.4	20.3
60°-70°	665.0	2.3
70°-80°	128.7	0.5
80°-90°	29.8	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°	28323.0	100.0
0°-180°	28323.0	100.0

Coefficient of Utilization

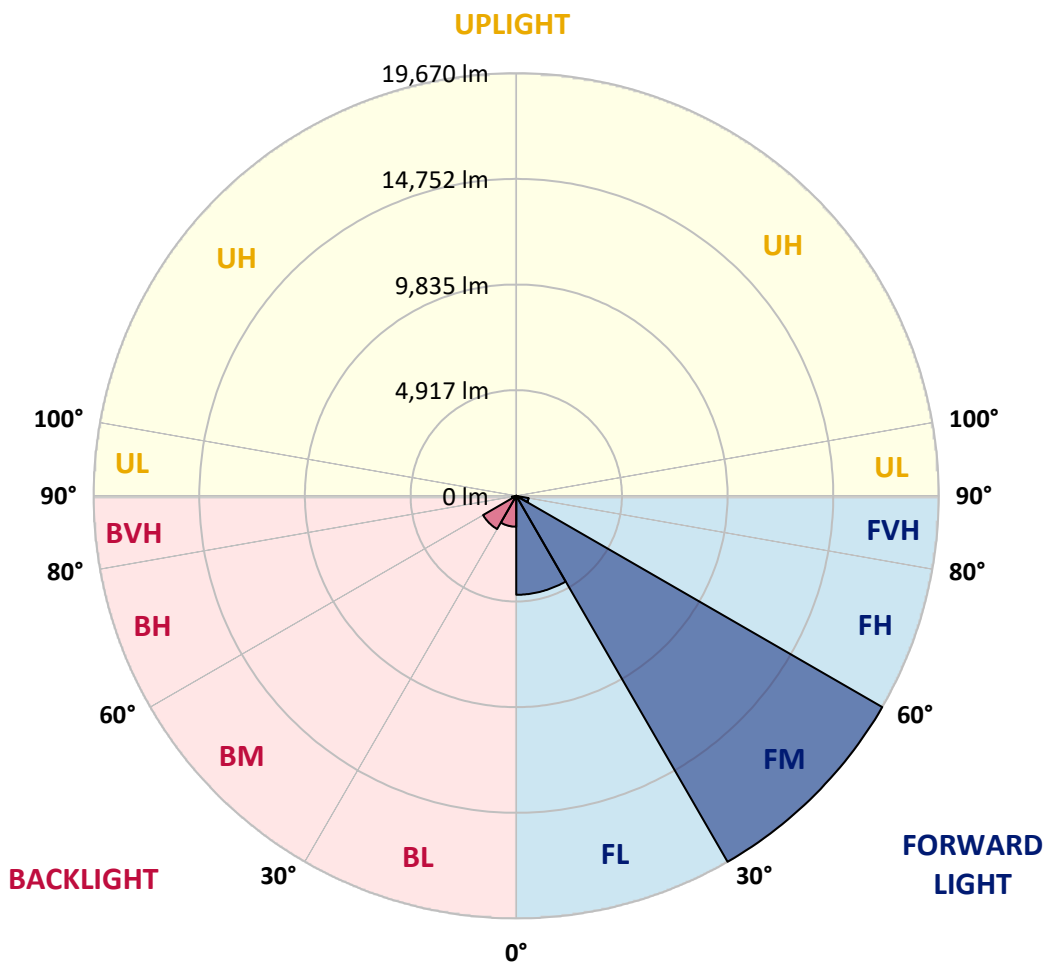


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4605.0	16.3			
FM (30°-60°)	19669.8	69.4			
FH (60°-80°)	585.6	2.1			G0/660
FVH (80°-90°)	14.2	0.1			G1/100
BL (0°-30°)	1440.6	5.1	B3/2500		
BM (30°-60°)	1784.2	6.3	B2/2500		
BH (60°-80°)	208.1	0.7	B1/500		G1/500
BVH (80°-90°)	15.6	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	8179.2	8179.2	8179.2	8179.2	8179.2	8179.2	8179.2	8179.2	8179.2	8179.2	8179.2
2.5°	9913.3	9686.2	9706.9	9558.2	9471.5	9331.2	9141.2	9104.1	8897.6	8616.9	8332.0
5°	10805.1	10751.5	10821.7	10607.0	10615.2	10384.0	9938.1	9946.4	9471.5	9013.2	8571.5
7.5°	10863.0	10739.1	10809.3	10999.2	11110.7	11069.4	10817.5	10598.7	10148.7	9475.7	8831.6
10°	9727.5	9962.9	10037.2	10351.0	10796.9	11267.6	11238.7	11251.1	10875.3	9995.9	9054.5
12.5°	9046.3	8889.4	9141.2	9331.2	10004.2	10916.6	11333.6	11424.5	11453.4	10499.6	9277.5
15°	8736.6	8736.6	8777.9	8831.6	9318.8	10161.1	11011.6	11275.8	11899.3	11160.2	9628.4
17.5°	8930.7	8922.4	8980.2	8868.7	9050.4	9698.6	10714.3	11015.7	12398.9	11808.5	9905.1
20°	9521.1	9550.0	9512.8	9190.8	9203.2	9690.4	10384.0	10858.8	12737.4	12370.0	10272.5
22.5°	10342.7	10359.2	10148.7	9797.7	9694.5	9934.0	10573.9	10937.3	13009.9	13043.0	10384.0
25°	11292.3	11226.3	11185.0	10689.5	10375.7	10582.2	11003.3	11213.9	13179.2	13621.0	10701.9
27.5°	12609.4	12477.3	12225.5	11783.7	11552.5	11259.3	11560.7	11907.5	13662.3	14430.3	11048.7
30°	14554.1	14438.5	13947.2	13377.4	12770.5	12481.5	12576.4	12766.3	14533.5	15367.5	11507.0
32.5°	17481.5	17237.9	16527.7	15441.8	14616.1	13819.2	13794.4	13996.7	15313.8	16664.0	12052.1
35°	20706.1	20631.8	19587.2	18468.3	16870.4	15640.0	15660.7	15768.0	16808.5	18365.0	12766.3
37.5°	22848.9	23257.7	22593.0	21391.5	20049.6	18290.7	17844.8	17882.0	18860.5	20379.9	14054.5
40°	24504.6	24157.8	24236.2	23955.5	23038.9	21841.5	20854.7	20660.7	21234.6	22609.5	15334.5
42.5°	23782.1	23798.6	24281.6	24946.4	25173.5	25086.8	24079.3	23711.9	23266.0	24434.4	16552.5
45°	21742.4	22167.7	22795.3	24554.2	26098.3	27547.6	27349.4	26738.3	24669.8	25879.5	17254.4
47.5°	18488.9	18472.4	19500.5	21787.8	25218.9	28612.8	29512.9	29083.5	25664.8	25718.5	17109.9
48°	17287.4	17584.7	18645.8	21337.8	24661.5	28455.9	29706.9	29166.1	25495.5	25503.8	16986.0
50°	12778.7	12725.1	14046.3	17349.3	22027.3	26738.3	28889.4	29310.6	25491.4	24417.9	16119.0
52.5°	6750.6	6981.9	7943.9	10908.4	15573.9	21882.8	25483.1	26139.6	24591.3	22642.5	14872.0
55°	2869.5	2592.9	3332.0	4925.7	8761.4	14620.2	18695.3	20156.9	20792.8	20037.2	13009.9
57.5°	1023.9	1118.9	1288.2	1853.8	3682.9	8001.7	11147.8	12283.3	14405.5	14702.8	8864.6
60°	656.5	668.9	722.5	850.5	1383.2	3084.2	5289.0	6193.2	7155.3	7386.5	4137.1
62.5°	507.8	512.0	536.7	557.4	656.5	1197.4	1986.0	2353.4	2444.3	2101.6	1085.9
65°	425.3	429.4	437.7	437.7	466.6	561.5	693.6	763.8	743.2	734.9	615.2
67.5°	326.2	334.4	351.0	351.0	367.5	342.7	384.0	408.8	462.4	561.5	524.4
70°	256.0	260.1	272.5	280.8	280.8	247.7	276.6	301.4	338.6	417.0	412.9
72.5°	198.2	206.4	214.7	214.7	202.3	169.3	198.2	218.8	243.6	289.0	280.8
75°	152.8	152.8	156.9	128.0	99.1	86.7	119.7	144.5	181.7	189.9	156.9
77.5°	41.3	45.4	41.3	37.2	41.3	61.9	78.4	90.8	115.6	115.6	103.2
80°	0.0	4.1	12.4	24.8	41.3	57.8	70.2	78.4	90.8	99.1	95.0
82.5°	0.0	4.1	12.4	24.8	37.2	45.4	61.9	66.1	74.3	86.7	86.7
85°	0.0	4.1	8.3	16.5	24.8	28.9	28.9	24.8	24.8	20.6	16.5
87.5°	0.0	0.0	4.1	8.3	8.3	12.4	12.4	12.4	12.4	12.4	12.4
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°	8179.2	8179.2	8179.2	8179.2	8179.2	8179.2	8179.2	8179.2	8179.2	8179.2	8179.2
2.5°	8220.5	8092.5	7898.5	7592.9	7299.8	7109.8	6928.2	6725.9	6614.4	6606.1	6544.2
5°	8319.6	8030.6	7568.1	7043.8	6482.3	5999.2	5512.0	5194.1	4909.2	4752.3	4723.4
7.5°	8373.3	7997.5	7250.2	6370.8	5412.9	4624.3	4079.3	3678.8	3521.9	3406.3	3402.2
10°	8484.7	7939.7	6775.4	5479.0	4294.0	3497.1	3121.4	2939.7	2853.0	2820.0	2770.4
12.5°	8567.3	7832.4	6288.2	4562.4	3393.9	2898.4	2733.3	2692.0	2696.1	2712.6	2692.0
15°	8682.9	7737.4	5631.7	3744.8	2848.9	2609.4	2609.4	2617.7	2675.5	2683.7	2679.6
17.5°	8674.7	7551.6	4954.6	3084.2	2518.6	2485.6	2497.9	2576.4	2613.5	2625.9	2597.0
20°	8773.8	7378.2	4256.8	2634.2	2332.8	2382.3	2464.9	2485.6	2531.0	2539.2	2506.2
22.5°	8744.9	6944.7	3608.6	2279.1	2192.4	2287.4	2369.9	2394.7	2382.3	2357.6	2353.4
25°	8691.2	6573.1	3014.0	2043.8	2089.2	2192.4	2270.9	2225.4	2200.7	2204.8	2208.9
27.5°	8596.2	6102.4	2522.7	1878.6	1948.8	2101.6	2097.4	2080.9	2105.7	2085.1	2105.7
30°	8579.7	5631.7	2118.1	1730.0	1845.6	1957.1	1965.3	1994.2	2023.1	1986.0	2023.1
32.5°	8604.5	5115.6	1829.1	1639.1	1783.7	1787.8	1878.6	1907.5	1886.9	1804.3	1812.6
35°	8794.4	4719.3	1618.5	1589.6	1684.6	1688.7	1775.4	1738.2	1647.4	1597.9	1626.8
37.5°	9194.9	4388.9	1519.4	1544.2	1552.4	1606.1	1610.2	1535.9	1544.2	1540.1	1556.6
40°	9706.9	4137.1	1449.2	1502.9	1494.6	1531.8	1383.2	1424.4	1461.6	1474.0	1482.2
42.5°	10057.8	3955.4	1403.8	1436.8	1420.3	1354.3	1271.7	1313.0	1341.9	1387.3	1395.5
45°	10214.7	3810.9	1350.1	1321.2	1321.2	1201.5	1168.5	1176.7	1242.8	1292.3	1284.1
47.5°	9958.7	3670.5	1255.2	1168.5	1197.4	1098.3	1061.1	1061.1	1131.3	1193.2	1180.8
48°	9859.6	3612.7	1259.3	1135.4	1156.1	1081.8	1044.6	1036.3	1114.8	1172.6	1172.6
50°	9368.3	3398.0	1151.9	1044.6	1003.3	995.0	970.3	978.5	1028.1	1081.8	1081.8
52.5°	8410.4	2935.6	974.4	896.0	821.6	871.2	883.6	867.1	891.8	941.4	937.2
55°	7019.0	2254.3	780.3	743.2	685.4	739.1	763.8	743.2	718.4	755.6	755.6
57.5°	4496.3	1213.9	623.5	631.7	573.9	627.6	648.2	598.7	553.3	582.2	578.0
60°	2027.3	726.7	512.0	499.6	462.4	524.4	557.4	499.6	437.7	458.3	478.9
62.5°	759.7	516.1	388.1	379.9	371.6	429.4	445.9	400.5	338.6	351.0	355.1
65°	557.4	454.2	309.7	280.8	297.3	338.6	330.3	284.9	243.6	243.6	251.9
67.5°	474.8	396.4	251.9	218.8	218.8	223.0	206.4	181.7	169.3	177.5	185.8
70°	371.6	313.8	198.2	169.3	152.8	136.3	119.7	115.6	103.2	115.6	111.5
72.5°	239.5	210.6	152.8	128.0	115.6	95.0	78.4	74.3	61.9	57.8	57.8
75°	128.0	128.0	119.7	103.2	90.8	74.3	61.9	49.5	33.0	24.8	24.8
77.5°	90.8	99.1	107.3	99.1	82.6	61.9	49.5	33.0	16.5	8.3	8.3
80°	86.7	99.1	107.3	95.0	82.6	61.9	45.4	24.8	12.4	4.1	4.1
82.5°	78.4	90.8	99.1	86.7	74.3	53.7	41.3	24.8	12.4	4.1	4.1
85°	16.5	20.6	24.8	24.8	28.9	37.2	28.9	20.6	8.3	4.1	4.1
87.5°	12.4	12.4	12.4	12.4	12.4	12.4	8.3	8.3	4.1	4.1	4.1
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)