

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: P533077

Luminaire Tested: **GALN-SA8C-727-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533077
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-SA8C-727-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA 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: 31400 lumens
Efficiency: N/A
Efficacy: 73.2 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

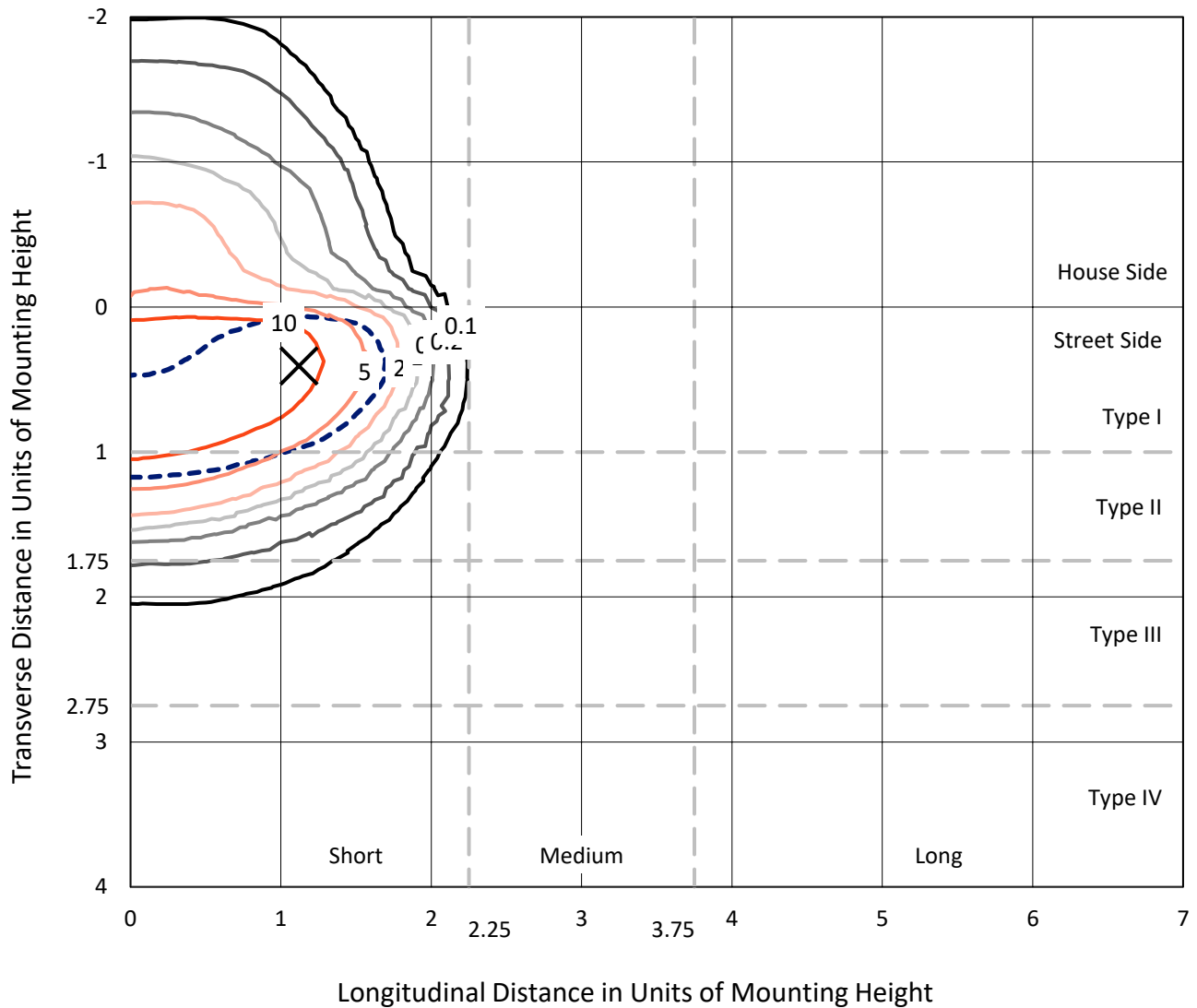
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

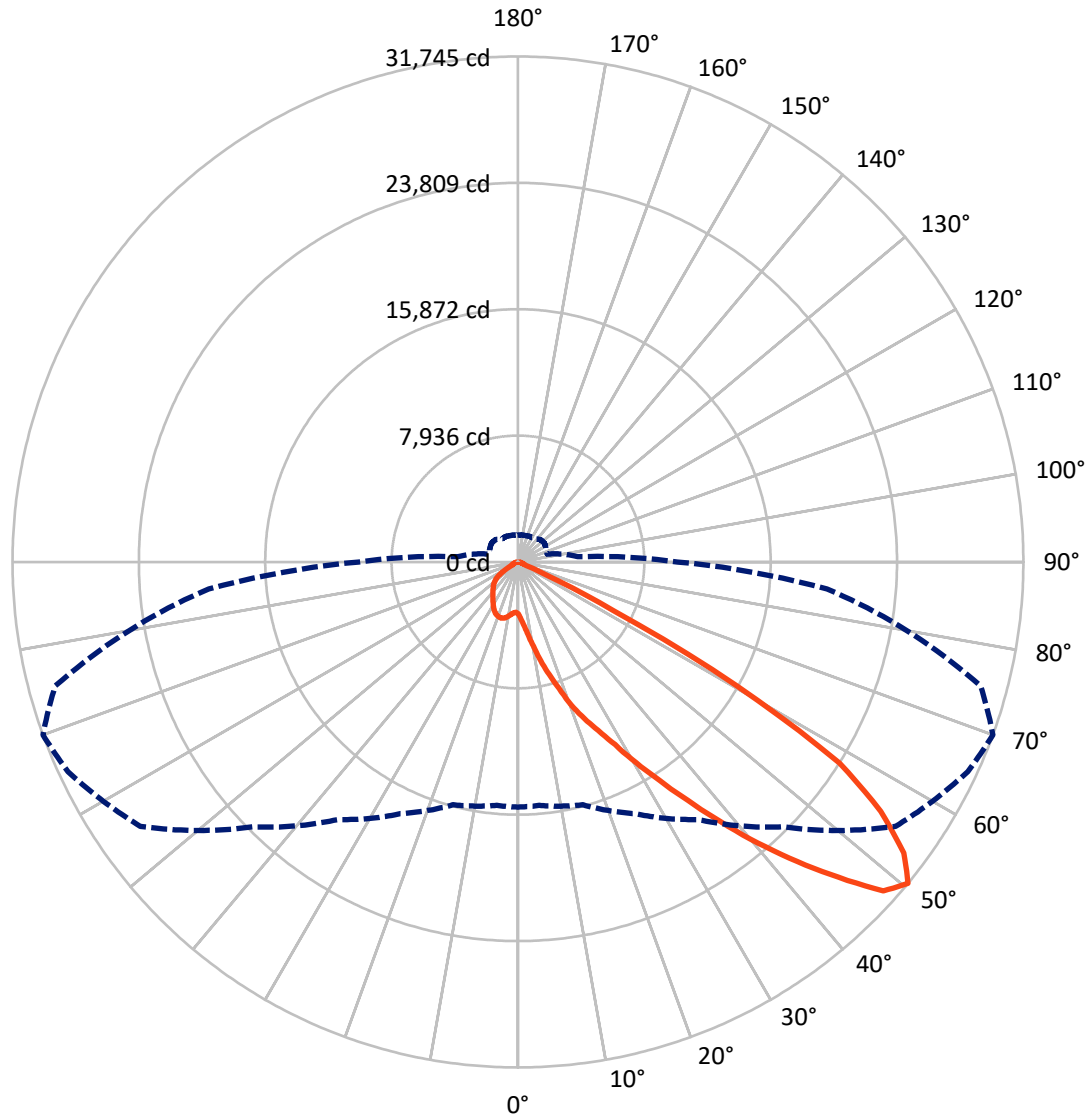
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.6 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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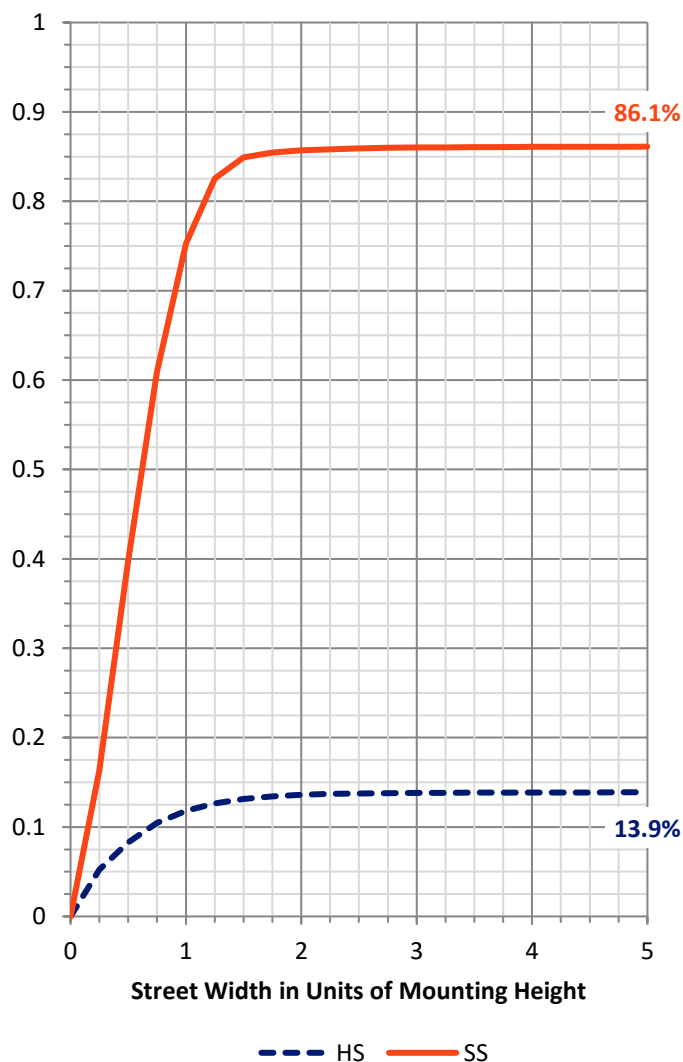
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4385.2	0.0	4385.2
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	27014.8	0.0	27014.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	31400.0	0.0	31400.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.9	1.3
10°-20°	1829.5	5.8
20°-30°	3837.9	12.2
30°-40°	6615.2	21.1
40°-50°	9668.1	30.8
50°-60°	7529.9	24.0
60°-70°	1275.8	4.1
70°-80°	175.3	0.6
80°-90°	45.4	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°	31400.0	100.0
0°-180°	31400.0	100.0

Coefficient of Utilization



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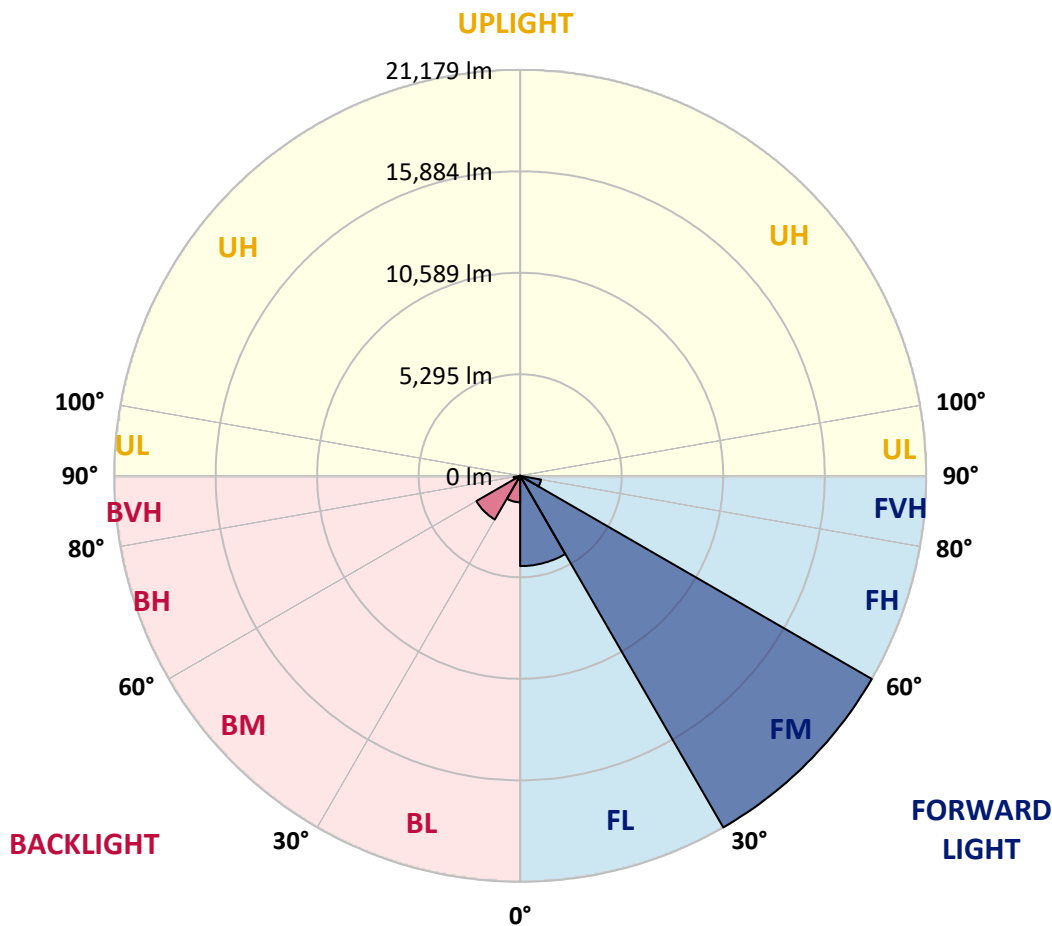
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4710.4	15.0			
FM (30°-60°)	21178.8	67.4			
FH (60°-80°)	1104.7	3.5			G1/1800
FVH (80°-90°)	21.0	0.1			G1/100
BL (0°-30°)	1379.9	4.4	B3/2500		
BM (30°-60°)	2634.5	8.4	B3/5000		
BH (60°-80°)	346.4	1.1	B1/500		G1/500
BVH (80°-90°)	24.4	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°	3252.4	3252.4	3252.4	3252.4	3252.4	3252.4	3252.4	3252.4	3252.4	3252.4	3252.4
2.5°	4259.1	4228.1	4161.0	4037.1	3985.5	3861.6	3789.3	3649.9	3562.2	3464.1	3355.7
5°	5998.9	5838.9	5740.8	5601.4	5193.5	4940.6	4522.4	4166.2	4001.0	3820.3	3572.5
7.5°	7795.5	7692.2	7558.0	7258.6	6979.8	6453.2	5735.6	4950.9	4615.3	4305.6	3815.1
10°	9282.3	8993.2	8977.7	8755.7	8451.1	7821.3	6959.1	5983.4	5384.6	4930.3	4161.0
12.5°	10320.0	10056.7	10175.4	10149.6	9865.7	9287.5	8291.1	7000.5	6375.8	5668.5	4517.3
15°	11264.7	11156.3	11120.2	11089.2	10975.6	10547.1	9654.0	8239.5	7336.0	6484.2	4919.9
17.5°	12188.8	11910.1	12044.3	12070.1	12059.8	11672.6	10836.2	9416.5	8353.0	7346.3	5343.3
20°	13009.7	13035.5	12854.8	12818.7	12787.7	12772.2	11956.5	10583.3	9602.4	8249.8	5895.7
22.5°	14062.9	13882.2	14042.2	13939.0	13737.6	13613.7	12989.0	11615.8	10686.5	9339.1	6458.4
25°	15307.0	15451.6	15074.7	15033.4	14811.4	14382.9	13820.2	12772.2	11729.4	10351.0	7067.6
27.5°	16840.3	16587.4	16489.3	16262.1	15859.4	15678.7	15017.9	13964.8	12989.0	11414.5	7656.1
30°	18156.8	18089.7	17599.2	17330.8	16979.7	16974.5	16050.4	15580.6	14630.7	13082.0	8466.6
32.5°	19230.6	18936.3	18755.6	18569.8	18285.8	18363.3	17583.7	17335.9	16380.8	14630.7	9421.7
35°	19948.2	19736.5	19628.1	19344.2	19261.6	19607.5	19282.2	19179.0	18394.3	16809.3	10542.0
37.5°	20175.3	20242.5	20221.8	19865.6	20041.1	20975.5	21393.7	21125.3	20712.2	19106.7	11755.2
40°	20376.7	20423.1	20319.9	20738.1	21238.8	22302.3	23815.0	23371.0	23216.1	21435.0	13443.3
42.5°	20490.3	20454.1	20454.1	21176.9	21935.8	24073.1	26153.6	25859.3	25740.6	23913.0	15394.8
45°	19999.8	19648.8	20025.6	21006.5	22534.6	24945.6	28022.5	28430.3	28259.9	26860.9	17676.7
47.5°	18167.1	18383.9	18595.6	19906.9	21806.7	24677.1	29168.5	30557.3	30872.2	29338.9	19173.8
50°	15394.8	15348.3	15787.2	17439.2	19746.8	23520.7	28946.6	31171.6	31744.7	30082.3	19488.7
52.5°	11197.6	11538.4	12013.3	13655.0	16391.2	20526.4	26081.3	29586.7	30350.8	29168.5	19282.2
55°	6520.3	6143.5	7212.1	8600.8	11182.1	15482.6	22049.4	26225.9	27640.4	27506.2	18239.4
57.5°	2612.3	2529.7	2896.2	3902.9	5833.7	9597.2	16035.0	21548.6	23815.0	25193.4	16029.8
60°	1146.1	1120.3	1316.5	1590.1	2385.1	4424.3	8771.2	13402.0	15766.5	17604.4	11032.4
62.5°	826.0	815.7	913.8	1011.9	1259.7	1925.6	3686.1	5400.1	6732.0	8131.1	4940.6
65°	666.0	691.8	758.9	810.5	929.3	1068.7	1301.0	1502.3	1843.0	1910.2	1089.3
67.5°	542.1	562.7	624.7	681.5	702.1	578.2	598.9	526.6	526.6	469.8	376.9
70°	397.5	402.7	475.0	542.1	433.7	232.3	407.8	407.8	366.5	351.1	320.1
72.5°	294.3	299.4	356.2	335.6	170.4	144.6	299.4	330.4	299.4	283.9	258.1
75°	216.8	222.0	185.9	77.4	72.3	92.9	175.5	227.2	216.8	211.7	196.2
77.5°	41.3	31.0	25.8	36.1	51.6	77.4	113.6	139.4	144.6	154.9	144.6
80°	5.2	5.2	15.5	31.0	56.8	82.6	118.7	134.2	139.4	144.6	134.2
82.5°	0.0	5.2	15.5	31.0	56.8	77.4	103.3	118.7	129.1	134.2	129.1
85°	0.0	5.2	10.3	25.8	46.5	56.8	51.6	36.1	31.0	36.1	25.8
87.5°	0.0	0.0	5.2	5.2	10.3	10.3	10.3	10.3	10.3	10.3	10.3
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°	3252.4	3252.4	3252.4	3252.4	3252.4	3252.4	3252.4	3252.4	3252.4	3252.4	3252.4
2.5°	3293.7	3273.1	3200.8	3123.4	3056.2	3087.2	3056.2	3030.4	3040.8	3030.4	3020.1
5°	3474.4	3381.5	3226.6	3159.5	3102.7	3097.5	3082.1	3076.9	3082.1	3082.1	3035.6
7.5°	3644.8	3495.1	3329.9	3257.6	3190.5	3195.6	3159.5	3159.5	3154.3	3128.5	3118.2
10°	3902.9	3701.6	3489.9	3360.8	3278.2	3262.7	3226.6	3190.5	3190.5	3190.5	3138.8
12.5°	4186.8	3933.9	3644.8	3495.1	3397.0	3319.5	3262.7	3252.4	3195.6	3185.3	3159.5
15°	4434.7	4114.6	3748.0	3541.5	3417.6	3314.4	3226.6	3169.8	3144.0	3128.5	3107.9
17.5°	4677.3	4269.4	3804.8	3541.5	3407.3	3288.6	3195.6	3144.0	3082.1	3092.4	3051.1
20°	5002.5	4434.7	3820.3	3474.4	3309.2	3195.6	3071.7	3045.9	3009.8	2978.8	2989.1
22.5°	5317.5	4553.4	3773.8	3391.8	3154.3	3020.1	2958.2	2927.2	2911.7	2885.9	2849.7
25°	5601.4	4682.5	3701.6	3242.1	2989.1	2891.0	2834.3	2829.1	2793.0	2793.0	2725.8
27.5°	5890.5	4728.9	3577.7	3066.6	2844.6	2787.8	2762.0	2751.7	2736.2	2700.0	2653.6
30°	6220.9	4744.4	3397.0	2885.9	2715.5	2653.6	2689.7	2715.5	2648.4	2581.3	2601.9
32.5°	6494.5	4708.3	3180.1	2715.5	2622.6	2591.6	2663.9	2689.7	2612.3	2540.0	2503.8
35°	6824.9	4620.5	2968.5	2581.3	2529.7	2591.6	2653.6	2653.6	2498.7	2410.9	2390.3
37.5°	7325.7	4522.4	2772.3	2467.7	2431.6	2560.6	2643.2	2586.4	2343.8	2235.4	2209.6
40°	7862.6	4460.5	2581.3	2354.1	2379.9	2509.0	2555.5	2379.9	2132.1	2065.0	2044.4
42.5°	8642.1	4336.6	2410.9	2256.0	2333.5	2436.7	2436.7	2121.8	2028.9	1992.8	1987.6
45°	9612.7	4248.8	2261.2	2173.4	2266.4	2292.2	2209.6	1987.6	1920.5	1910.2	1915.3
47.5°	10087.7	4078.4	2106.3	2075.4	2142.5	2147.6	1930.8	1879.2	1822.4	1806.9	1796.6
50°	10015.4	3773.8	1905.0	1946.3	2039.2	1987.6	1760.4	1770.8	1719.1	1714.0	1688.2
52.5°	9509.5	3293.7	1703.6	1801.7	1905.0	1755.3	1621.0	1610.7	1610.7	1543.6	1517.8
55°	8430.5	2653.6	1461.0	1584.9	1708.8	1476.5	1440.4	1430.0	1404.2	1342.3	1326.8
57.5°	6675.2	1946.3	1099.6	1233.9	1450.7	1254.5	1249.3	1202.9	1135.8	1089.3	1089.3
60°	3970.0	1120.3	691.8	753.7	960.2	1017.0	1130.6	1110.0	996.4	924.1	903.5
62.5°	1812.1	578.2	438.8	449.1	516.3	660.8	888.0	1027.4	867.3	743.4	733.1
65°	609.2	428.5	361.4	345.9	356.2	397.5	531.7	727.9	691.8	573.0	552.4
67.5°	371.7	382.0	340.7	314.9	314.9	309.8	304.6	330.4	407.8	397.5	402.7
70°	320.1	351.1	314.9	283.9	273.6	258.1	216.8	180.7	154.9	180.7	191.0
72.5°	258.1	278.8	268.5	242.6	216.8	196.2	154.9	118.7	87.8	77.4	77.4
75°	191.0	206.5	216.8	185.9	165.2	139.4	113.6	77.4	46.5	31.0	31.0
77.5°	139.4	154.9	160.0	144.6	123.9	98.1	72.3	51.6	25.8	10.3	10.3
80°	118.7	139.4	154.9	144.6	129.1	92.9	67.1	36.1	20.7	5.2	5.2
82.5°	113.6	139.4	154.9	139.4	123.9	87.8	67.1	41.3	15.5	5.2	5.2
85°	25.8	36.1	46.5	56.8	67.1	67.1	51.6	31.0	15.5	5.2	5.2
87.5°	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	5.2	5.2	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)