

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: P533588

Luminaire Tested: **GALN-SA9A-735-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533588
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-735-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32734 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

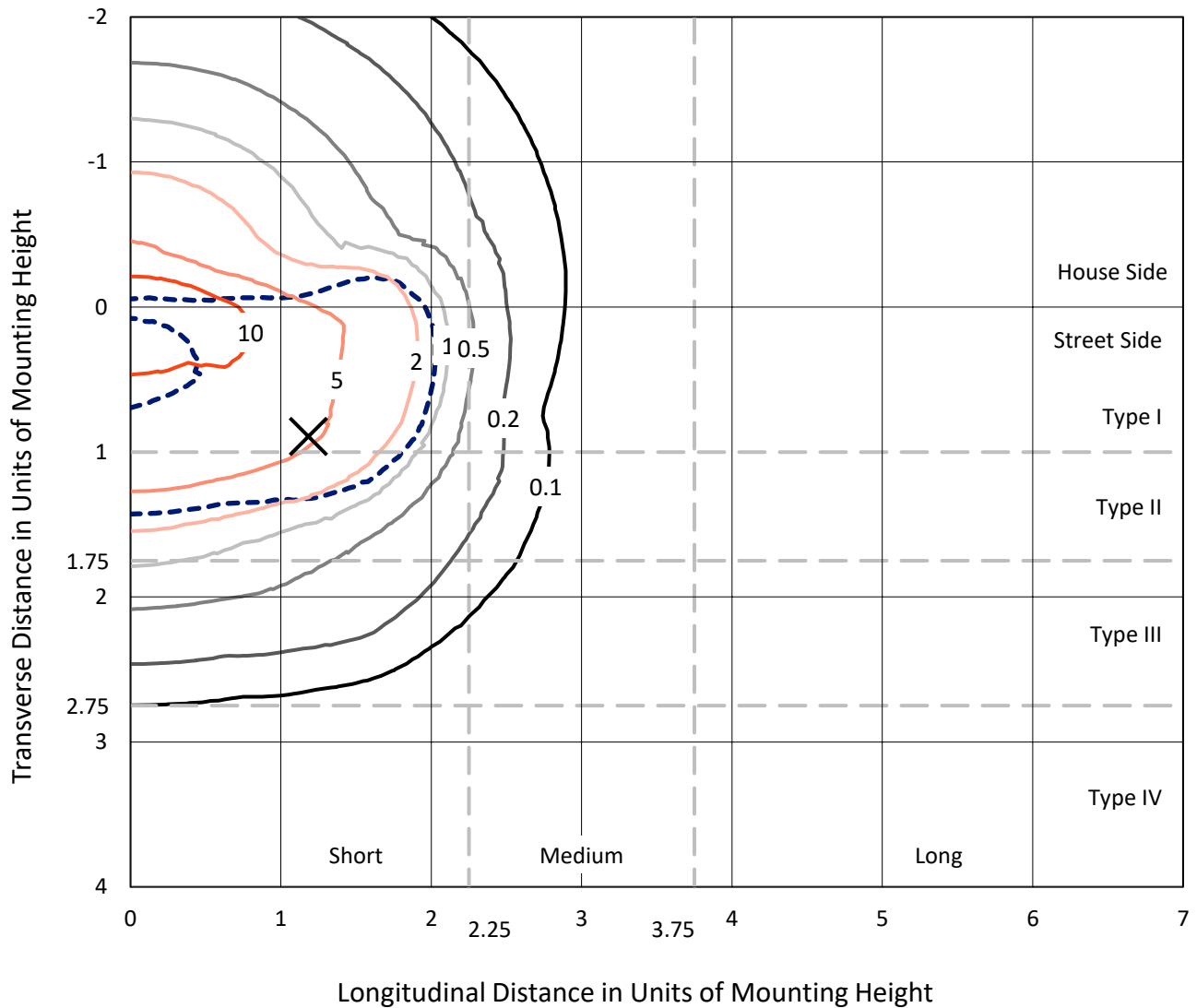
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

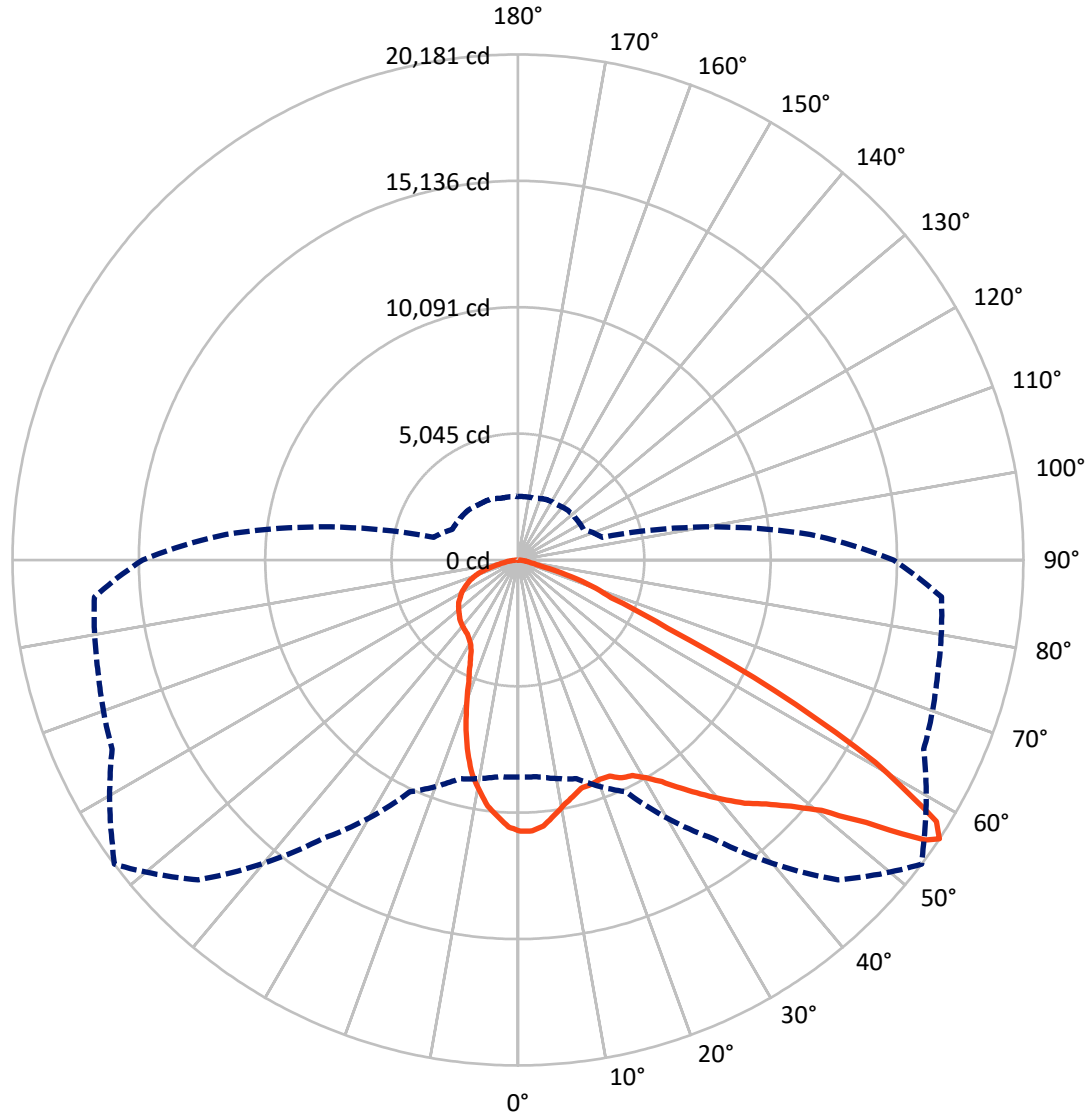
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.3 fc
 Type II - Short - N/A

REPORT NUMBER: P533588
CATALOG NUMBER: GALN-SA9A-735-U-SL2-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9552.5	0.0	9552.5
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	23181.5	0.0	23181.5
	% Fixture	70.8	0.0	70.8
Total	Lumens	32734.0	0.0	32734.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	958.7	2.9
10°-20°	2394.5	7.3
20°-30°	3530.9	10.8
30°-40°	5045.0	15.4
40°-50°	6943.7	21.2
50°-60°	8205.6	25.1
60°-70°	4373.1	13.4
70°-80°	1109.4	3.4
80°-90°	173.0	0.5
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°	32734.0	100.0
0°-180°	32734.0	100.0



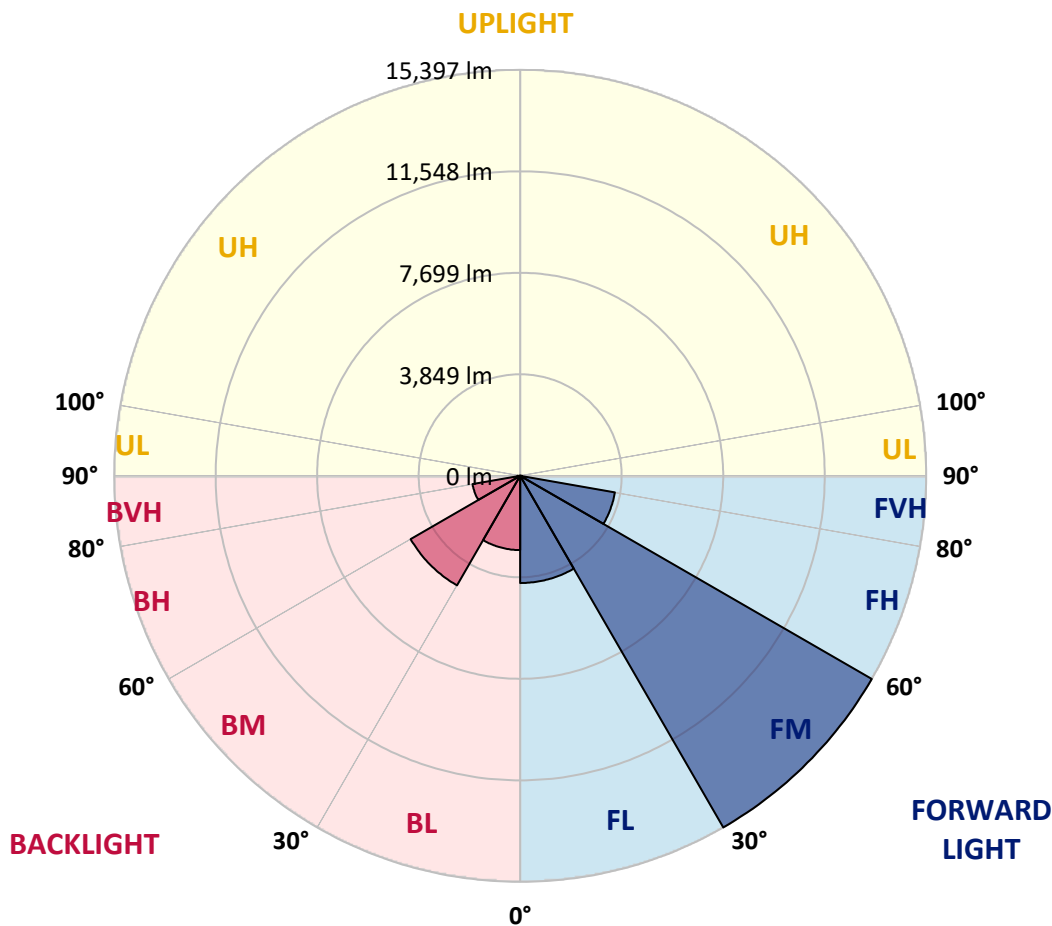
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4066.7	12.4			
FM (30°-60°)	15397.4	47.0			
FH (60°-80°)	3647.8	11.1			G2/5000
FVH (80°-90°)	69.5	0.2			G1/100
BL (0°-30°)	2817.4	8.6	B4/5000		
BM (30°-60°)	4796.9	14.7	B3/5000		
BH (60°-80°)	1834.7	5.6	B3/2500		G3/2500
BVH (80°-90°)	103.5	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	10829.7	10829.7	10829.7	10829.7	10829.7	10829.7	10829.7	10829.7	10829.7	10829.7	10829.7
2.5°	10695.3	10602.9	10657.5	10636.5	10808.7	10859.1	10833.9	10854.9	10951.5	10905.3	10808.7
5°	9994.1	10124.2	10149.4	10212.4	10313.2	10510.6	10665.9	10707.9	10754.1	10968.3	10947.3
7.5°	9355.8	9444.0	9397.8	9582.5	9800.9	10120.0	10309.0	10342.6	10766.7	10884.3	10972.5
10°	8952.7	8864.5	9074.4	9124.8	9372.6	9737.9	9964.7	10103.2	10489.6	10955.7	11010.3
12.5°	8578.9	8549.5	8675.5	8818.3	9095.4	9473.4	9704.3	9758.9	10355.2	10846.5	11102.6
15°	8301.8	8268.2	8394.2	8499.1	8822.5	9158.4	9452.4	9607.7	10208.2	10783.5	11022.9
17.5°	8083.4	8079.2	8150.6	8339.6	8671.3	8952.7	9427.2	9435.6	10132.6	10880.1	11090.0
20°	8070.8	8066.6	8079.2	8289.2	8591.5	8935.9	9347.4	9423.0	10132.6	10812.9	11094.2
22.5°	8175.8	8108.6	8184.2	8318.6	8536.9	8965.3	9376.8	9544.7	10376.2	11144.6	11283.2
25°	8343.8	8360.6	8402.6	8448.8	8574.7	9032.4	9637.1	9775.7	10661.7	11430.2	11543.6
27.5°	8650.3	8641.9	8658.7	8683.9	8793.1	9095.4	9742.1	10099.0	11258.0	11938.3	11824.9
30°	9099.6	9070.2	9137.4	9225.6	9124.8	9297.0	10090.6	10359.4	11812.3	12450.6	12139.8
32.5°	9507.0	9616.1	9742.1	9779.9	9658.1	9691.7	10552.6	10825.5	12274.2	13080.5	12526.2
35°	10015.1	10103.2	10271.2	10388.8	10367.8	10267.0	11182.4	11543.6	12941.9	13542.4	12933.5
37.5°	10510.6	10615.5	10892.7	11241.2	11048.1	11001.9	11854.3	12152.4	13147.6	13790.1	13231.6
40°	11308.4	11304.2	11782.9	11963.5	12135.6	12055.9	12551.4	12652.1	13256.8	13735.5	13240.0
42.5°	12244.8	12186.0	12673.1	12954.5	13177.0	13185.4	13277.8	13244.2	13307.2	13458.4	13151.8
45°	13135.0	13261.0	13752.3	14256.2	14478.8	14504.0	13890.9	13827.9	13395.4	13378.6	12983.9
47.5°	14222.6	14252.0	14655.2	15318.6	15835.1	15658.8	14684.5	14546.0	13781.7	13911.9	13265.2
50°	14285.6	14504.0	14865.1	15646.2	17233.5	17187.3	15713.3	15453.0	14403.2	14667.8	14050.5
52.5°	12967.1	12916.7	13345.0	14621.6	17128.5	18707.4	17418.2	16796.7	15738.5	15537.0	15322.8
55°	9880.7	9998.3	10376.2	11665.3	14873.5	18728.4	19740.4	19232.3	17166.3	16821.9	16574.2
56°	8667.1	8683.9	9040.8	10216.6	13571.8	18060.7	20181.3	19769.8	17875.9	17351.0	16973.1
57.5°	7184.8	7088.2	7273.0	7915.5	11455.4	16649.8	19698.4	20101.5	18707.4	17922.1	17397.2
60°	5656.3	5635.3	5559.7	5677.3	7239.4	12543.0	16397.8	17304.8	18623.4	17384.6	16662.4
62.5°	4619.1	4514.1	4665.3	4833.3	5030.6	7781.1	11522.6	12055.9	14785.3	13878.3	12517.8
65°	3581.9	3531.5	3720.5	4266.4	4383.9	4942.4	6563.3	6974.8	8730.1	8574.7	7550.1
67.5°	2464.9	2473.3	2637.1	3468.5	4064.8	4014.4	4018.6	4232.8	4556.1	3384.5	2947.8
70°	1562.1	1557.9	1646.1	2234.0	3271.2	3304.8	3136.8	3073.8	2914.2	1763.7	1868.6
72.5°	1003.6	974.2	1020.4	1234.6	1692.3	1956.8	2015.6	2053.4	1688.1	1385.7	1503.3
75°	566.9	537.5	520.7	575.3	667.7	772.6	848.2	873.4	978.4	1049.8	1112.8
77.5°	172.2	155.4	189.0	252.0	331.7	445.1	541.7	558.5	659.3	743.3	806.2
80°	75.6	84.0	117.6	168.0	235.2	314.9	382.1	407.3	474.5	537.5	554.3
82.5°	46.2	50.4	79.8	113.4	163.8	222.6	272.9	281.3	348.5	398.9	411.5
85°	16.8	21.0	42.0	67.2	105.0	142.8	142.8	155.4	142.8	142.8	155.4
87.5°	0.0	0.0	4.2	8.4	8.4	12.6	16.8	16.8	21.0	25.2	29.4
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°	10829.7	10829.7	10829.7	10829.7	10829.7	10829.7	10829.7	10829.7	10829.7	10829.7	10829.7
2.5°	10859.1	10838.1	10804.5	10682.7	10670.1	10632.3	10422.4	10388.8	10422.4	10321.6	10330.0
5°	10838.1	10901.1	10649.1	10527.4	10300.6	10136.8	9947.9	9851.3	9679.1	9569.9	9691.7
7.5°	10930.5	10905.3	10590.3	10325.8	9985.7	9569.9	9238.2	9049.2	8746.9	8662.9	8725.9
10°	10896.9	10762.5	10393.0	10044.4	9402.0	9036.6	8499.1	7978.5	7692.9	7545.9	7524.9
12.5°	10850.7	10812.9	10195.6	9595.1	8919.1	8150.6	7394.8	6903.5	6437.4	6235.8	6265.2
15°	10905.3	10586.1	9826.1	9066.0	8167.4	7159.6	6345.0	5710.9	5387.6	5257.4	5257.4
17.5°	10880.1	10477.0	9649.7	8474.0	7336.0	6143.4	5249.0	4866.9	4732.5	4732.5	4770.3
20°	10892.7	10548.4	9292.8	7881.9	6353.4	5173.4	4522.5	4383.9	4442.7	4463.7	4484.7
22.5°	10964.1	10313.2	8944.3	7231.0	5442.1	4425.9	4106.8	4111.0	4216.0	4329.4	4308.4
25°	11052.3	10220.8	8520.1	6584.3	4745.1	4060.6	3959.8	3947.2	4027.0	4085.8	4094.2
27.5°	10976.7	10061.2	8087.6	5778.1	4174.0	3817.1	3796.1	3804.5	3829.7	3947.2	3909.4
30°	11224.4	10107.4	7545.9	5102.0	3859.1	3737.3	3712.1	3699.5	3737.3	3770.9	3741.5
32.5°	11531.0	9943.7	7142.8	4451.1	3703.7	3678.5	3628.1	3611.3	3632.3	3598.7	3615.5
35°	11665.3	9914.3	6617.9	3985.0	3581.9	3560.9	3531.5	3527.3	3531.5	3502.1	3476.9
37.5°	11740.9	10052.8	6017.4	3770.9	3506.3	3527.3	3460.1	3451.7	3376.1	3392.9	3405.5
40°	11871.1	9838.7	5530.3	3565.1	3460.1	3418.1	3359.3	3346.8	3296.4	3267.0	3296.4
42.5°	11682.1	9775.7	5051.6	3476.9	3392.9	3346.8	3304.8	3233.4	3216.6	3191.4	3174.6
45°	11531.0	9414.6	4623.3	3367.7	3313.2	3288.0	3208.2	3132.6	3069.6	3094.8	3057.0
47.5°	11644.3	9288.6	4199.2	3275.4	3204.0	3174.6	3094.8	3036.0	2973.0	2943.6	2935.2
50°	12097.9	9523.8	3842.3	3208.2	3111.6	3094.8	2989.8	2922.6	2863.8	2842.8	2851.2
52.5°	13181.2	10166.2	3598.7	3069.6	3023.4	2947.8	2889.0	2805.1	2767.3	2700.1	2742.1
55°	14554.4	11211.8	3535.7	2939.4	2914.2	2847.0	2767.3	2704.3	2632.9	2578.3	2565.7
56°	14995.3	11711.5	3485.3	2889.0	2847.0	2809.3	2704.3	2666.5	2553.1	2540.5	2532.1
57.5°	15352.2	12152.4	3493.7	2792.5	2750.5	2716.9	2653.9	2561.5	2485.9	2439.7	2460.7
60°	14546.0	11375.6	3334.2	2645.5	2637.1	2574.1	2485.9	2443.9	2351.5	2297.0	2284.4
62.5°	10812.9	7722.3	2704.3	2456.5	2452.3	2385.1	2284.4	2238.2	2221.4	2145.8	2145.8
65°	6227.4	4841.7	2338.9	2301.2	2267.6	2200.4	2099.6	2061.8	2019.8	1994.6	1973.6
67.5°	2658.1	2511.1	2124.8	2120.6	2082.8	1998.8	1898.0	1839.2	1784.7	1734.3	1759.5
70°	1927.4	1956.8	1919.0	1898.0	1851.8	1746.9	1658.7	1587.3	1503.3	1469.7	1494.9
72.5°	1528.5	1591.5	1646.1	1650.3	1595.7	1473.9	1377.3	1280.8	1188.4	1142.2	1163.2
75°	1159.0	1201.0	1255.6	1268.2	1188.4	1104.4	1012.0	911.2	839.8	785.2	793.6
77.5°	835.6	827.2	877.6	869.2	831.4	772.6	688.7	596.3	516.5	466.1	470.3
80°	571.1	583.7	613.1	608.9	562.7	524.9	461.9	386.3	327.5	285.5	277.1
82.5°	398.9	419.9	445.1	424.1	386.3	348.5	302.3	247.8	201.6	168.0	159.6
85°	142.8	163.8	189.0	201.6	214.2	205.8	172.2	138.6	100.8	84.0	79.8
87.5°	29.4	33.6	37.8	37.8	37.8	33.6	29.4	29.4	25.2	12.6	12.6
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)