

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: P648592

Luminaire Tested: **GALN-SA8B-835-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648592
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-835-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35912.3 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

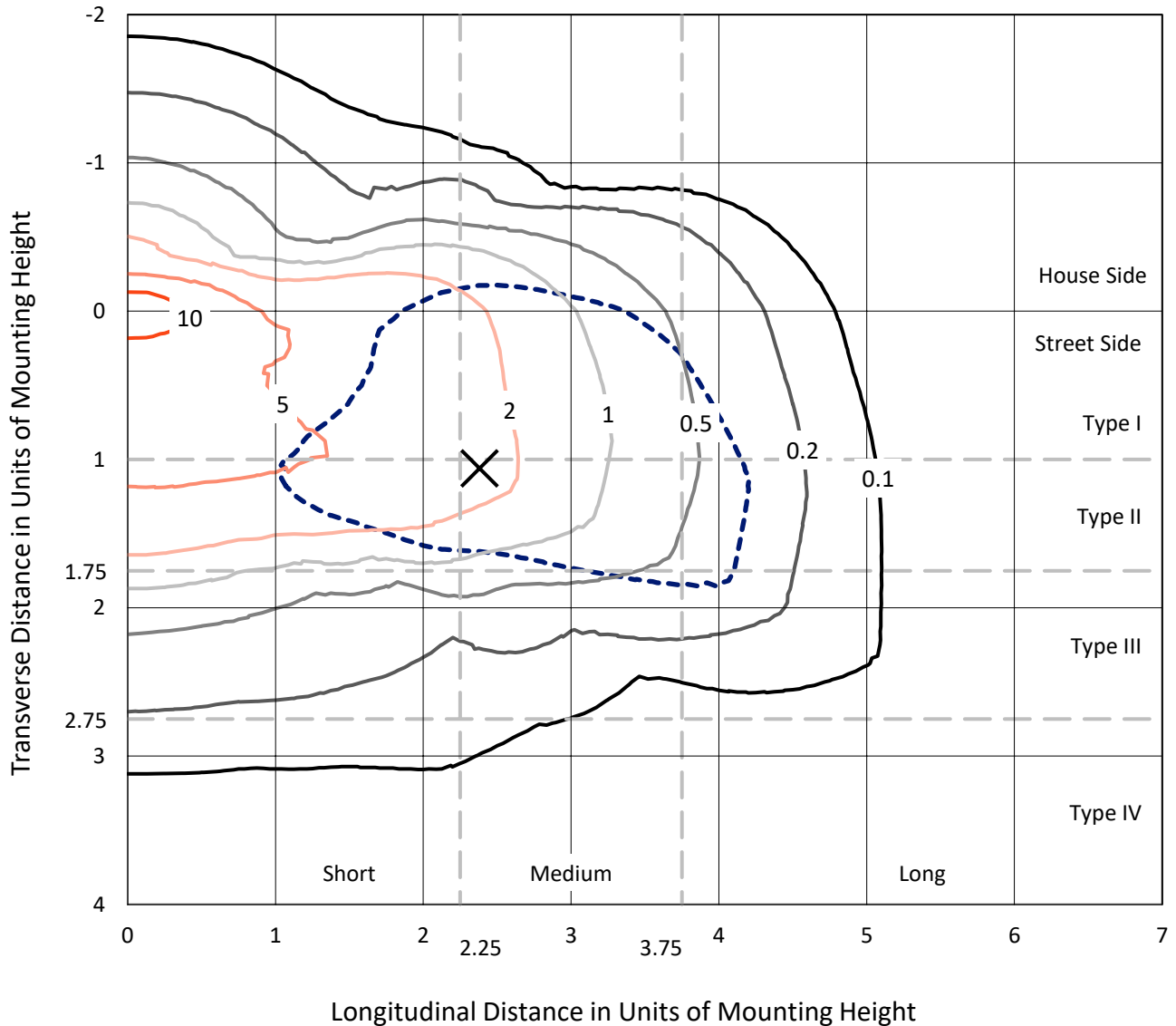
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

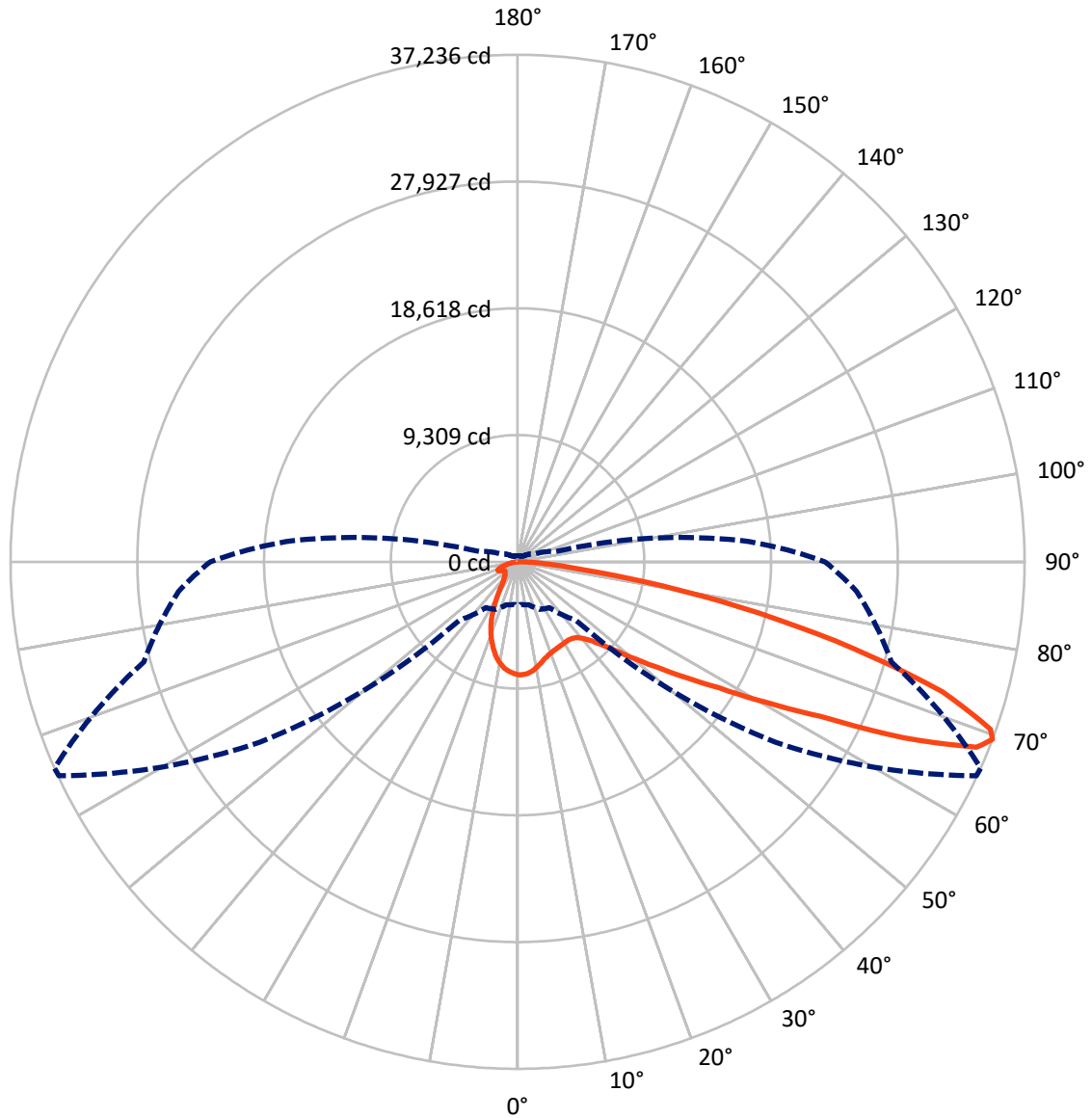
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6753.8	0.0	6753.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	29158.6	0.0	29158.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	35912.3	0.0	35912.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	720.2	2.0
10°-20°	1708.2	4.8
20°-30°	2325.5	6.5
30°-40°	3124.9	8.7
40°-50°	4666.0	13.0
50°-60°	7422.1	20.7
60°-70°	9128.8	25.4
70°-80°	5939.6	16.5
80°-90°	877.1	2.4
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°	35912.3	100.0
0°-180°	35912.3	100.0

Coefficient of Utilization

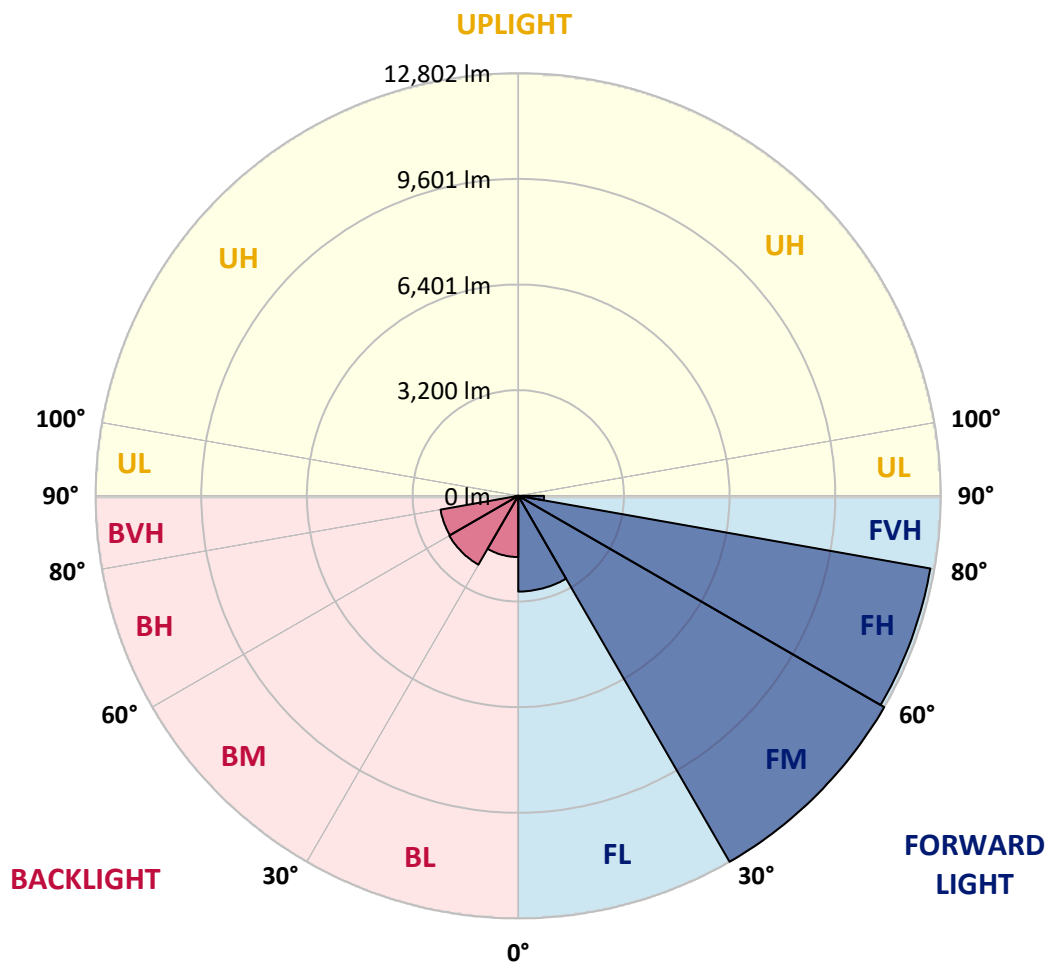


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2899.9	8.1			
FM (30°-60°)	12801.7	35.6			
FH (60°-80°)	12677.2	35.3			G5
FVH (80°-90°)	779.8	2.2			G5
BL (0°-30°)	1853.9	5.2	B3/2500		
BM (30°-60°)	2411.4	6.7	B2/2500		
BH (60°-80°)	2391.1	6.7	B3/2500		G3/2500
BVH (80°-90°)	97.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	8293.1	8293.1	8293.1	8293.1	8293.1	8293.1	8293.1	8293.1	8293.1	8293.1	8293.1
2.5°	8002.8	8034.6	8070.4	8110.2	8185.7	8227.5	8257.4	8291.2	8295.1	8313.0	8299.1
5°	7412.1	7449.9	7503.6	7579.2	7692.5	7869.5	8052.5	8201.7	8219.5	8303.1	8327.0
7.5°	6918.9	6940.8	6984.5	7105.9	7266.9	7463.9	7730.3	8032.6	8076.4	8275.2	8344.8
10°	6517.1	6539.1	6590.7	6716.0	6875.1	7121.8	7414.1	7811.8	7847.7	8189.7	8348.8
12.5°	6216.9	6236.8	6292.4	6415.7	6598.7	6829.4	7151.6	7573.2	7624.9	8076.4	8311.1
15°	5988.1	6026.0	6071.7	6173.1	6366.0	6588.8	6901.0	7354.5	7396.2	7957.1	8285.2
17.5°	5890.7	5908.6	5940.5	6033.9	6175.1	6393.9	6708.1	7183.4	7233.1	7873.5	8279.2
20°	5894.7	5912.6	5918.5	5970.3	6071.7	6260.6	6570.9	7048.2	7107.8	7799.9	8289.2
22.5°	6030.0	6031.9	6010.1	5992.1	6031.9	6189.1	6473.5	6946.8	7016.4	7768.1	8297.1
25°	6238.8	6274.6	6242.7	6159.2	6085.6	6161.2	6435.6	6891.1	6956.7	7722.3	8287.2
27.5°	6576.8	6582.8	6556.9	6443.6	6252.6	6197.0	6419.7	6849.3	6905.0	7688.6	8237.5
30°	7030.2	7012.4	6988.5	6863.2	6562.9	6334.2	6453.6	6811.6	6869.2	7638.9	8177.8
32.5°	7489.7	7545.4	7523.5	7376.3	6986.6	6600.7	6562.9	6807.6	6855.2	7601.1	8112.2
35°	7977.0	8002.8	8106.2	8030.6	7630.9	7032.3	6767.8	6869.2	6907.0	7603.0	8066.5
37.5°	8358.8	8428.4	8671.0	8736.6	8360.8	7603.0	7099.9	7044.2	7060.1	7700.5	8084.3
40°	8820.2	8939.5	9251.7	9520.2	9273.6	8344.8	7664.7	7368.3	7388.2	7935.2	8201.7
42.5°	9404.8	9488.4	9908.0	10271.9	10232.2	9325.3	8348.8	7899.4	7909.3	8402.5	8529.8
45°	10089.0	10208.4	10679.7	11226.6	11320.1	10435.0	9337.3	8702.8	8696.9	9128.4	9142.4
47.5°	10964.0	11037.6	11505.0	12101.7	12479.5	11829.2	10536.4	9856.3	9792.7	10186.4	10073.1
50°	11769.5	11884.8	12238.8	12891.2	13831.9	13462.0	12113.6	11351.9	11202.7	11570.6	11379.7
52.5°	12107.6	12228.9	12527.2	13336.7	14991.3	15574.0	14116.2	13135.8	12887.2	13169.6	13100.0
55°	11520.9	11678.1	11956.5	12940.9	15500.4	18010.3	16817.0	15198.1	15017.2	14895.9	14915.8
57.5°	9943.8	10092.9	10468.9	11554.7	14891.9	19778.3	20673.2	17849.2	17461.4	16902.5	16998.0
60°	7569.3	7662.7	7857.6	9060.8	13088.1	20237.7	25052.5	21200.2	20953.6	18901.2	18968.8
62.5°	5375.6	5481.0	5616.3	6216.9	9581.9	18943.0	28481.1	25879.8	24998.8	20971.5	20905.9
65°	4365.3	4293.7	4456.8	4737.2	5622.3	14681.1	29252.7	32375.1	31161.9	23698.1	22787.3
67.5°	3589.7	3514.2	3675.2	4174.4	4275.8	8521.9	26472.4	36591.2	36348.7	26663.3	24698.5
69°	3178.0	3138.3	3279.4	3848.3	4104.8	6051.8	23061.7	37177.9	37235.6	28411.5	24992.8
70°	2863.8	2879.7	3017.0	3683.2	4027.3	4989.8	19710.6	36368.5	36857.8	29284.6	24674.6
72.5°	2108.1	2141.9	2332.8	3050.8	3953.7	4234.1	11729.7	31766.5	32631.7	29336.3	22572.5
75°	1473.7	1457.8	1626.8	2297.0	3734.9	4196.3	6889.1	24567.2	25547.6	25356.8	18966.8
77.5°	964.6	990.4	1125.6	1622.8	3142.3	4164.5	4490.7	17429.5	18065.9	16958.2	11218.6
80°	680.2	678.2	753.7	1107.7	2330.8	4001.4	3677.2	10986.0	10824.8	6664.3	3327.2
82.5°	389.8	417.7	505.1	779.6	1559.2	3522.1	3382.9	5254.3	4796.9	1899.2	1123.7
85°	216.8	226.8	300.3	471.4	910.9	2653.0	2953.3	2390.5	2255.3	793.5	483.3
87.5°	69.6	75.6	125.3	238.7	413.7	1253.0	1672.6	1103.8	1018.2	286.3	194.9
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°	8293.1	8293.1	8293.1	8293.1	8293.1	8293.1	8293.1	8293.1	8293.1	8293.1	8293.1
2.5°	8305.0	8328.9	8265.3	8203.6	8148.0	8070.4	8000.8	7943.1	7903.4	7897.4	7877.5
5°	8332.9	8334.9	8213.6	8050.5	7891.4	7716.4	7535.4	7406.2	7284.9	7217.2	7183.4
7.5°	8352.8	8334.9	8116.1	7851.6	7545.4	7227.2	6909.0	6654.4	6457.5	6380.0	6409.8
10°	8344.8	8289.2	7969.0	7545.4	7099.9	6624.6	6167.1	5809.2	5481.0	5312.0	5315.9
12.5°	8301.1	8209.6	7750.2	7201.3	6547.0	5910.6	5210.6	4727.3	4347.5	4122.7	4053.1
15°	8263.3	8104.2	7493.7	6734.0	5920.6	5011.7	4158.5	3561.9	3243.7	3066.7	3064.7
17.5°	8223.5	8002.8	7213.2	6238.8	5200.6	4031.2	3136.3	2680.8	2531.7	2549.6	2519.8
20°	8181.8	7883.5	6920.9	5687.9	4323.6	3007.0	2348.8	2163.7	2205.6	2287.1	2299.0
22.5°	8134.0	7756.2	6606.6	5081.3	3400.8	2263.2	1905.3	1877.4	1984.7	2112.1	2130.0
25°	8060.4	7597.1	6210.9	4446.9	2623.2	1823.7	1668.6	1688.5	1793.9	1901.3	1913.2
27.5°	7957.1	7400.2	5811.2	3655.4	1970.9	1565.1	1525.4	1551.2	1603.0	1668.6	1684.5
30°	7817.9	7177.4	5351.7	2971.3	1579.1	1435.9	1420.0	1433.9	1463.7	1491.5	1499.5
32.5°	7678.6	6962.7	4888.3	2275.2	1408.1	1350.4	1334.5	1334.5	1334.5	1338.5	1340.4
35°	7549.4	6759.8	4391.2	1772.0	1318.6	1282.8	1260.9	1237.0	1233.1	1219.1	1219.1
37.5°	7477.7	6574.9	3862.1	1483.6	1253.0	1227.0	1197.2	1157.4	1135.6	1137.5	1133.6
40°	7491.7	6453.6	3380.9	1320.5	1199.2	1171.4	1125.6	1079.9	1066.0	1066.0	1062.0
42.5°	7648.8	6413.8	2919.5	1235.0	1147.5	1115.7	1058.0	1016.3	1008.3	1006.3	1010.3
45°	8010.7	6511.2	2505.8	1179.4	1103.8	1056.0	998.3	960.6	952.6	952.6	950.6
47.5°	8716.7	6827.4	2209.5	1143.6	1071.9	1010.3	950.6	912.8	898.9	895.0	895.0
50°	9814.5	7513.6	1988.7	1111.7	1032.2	968.5	906.9	863.1	841.3	839.2	837.3
52.5°	11340.0	8583.5	1903.2	1087.8	988.4	924.8	857.2	815.4	787.5	781.6	777.6
55°	13123.9	10077.1	2020.6	1070.0	942.7	875.1	805.5	761.7	735.9	723.9	721.9
57.5°	15190.2	11870.9	2466.1	1046.1	900.9	821.4	753.7	710.0	682.1	668.2	664.2
60°	17045.7	13714.5	3243.7	1032.2	865.1	763.7	694.1	654.3	628.4	614.5	612.5
62.5°	19084.2	15472.5	4172.5	1070.0	849.2	708.0	638.4	602.6	580.8	566.8	566.8
65°	21261.9	17232.7	4786.9	1197.2	873.0	664.2	578.7	548.9	529.0	519.1	517.1
67.5°	22729.6	17841.2	3943.7	1328.5	932.7	616.5	521.1	497.2	485.2	475.3	475.3
69°	22570.5	17071.5	2909.5	1362.3	950.6	592.7	489.2	471.4	455.4	451.5	447.5
70°	22067.3	16194.5	2438.3	1340.4	936.7	570.8	469.3	447.5	433.5	429.6	427.6
72.5°	19654.9	14044.7	1815.8	1165.4	797.5	495.2	415.6	395.7	383.8	377.9	377.9
75°	16329.8	11479.2	1418.0	926.8	624.4	417.7	356.0	340.1	330.1	326.1	324.2
77.5°	9152.3	6409.8	1018.2	725.9	473.3	338.1	298.3	284.4	274.4	270.4	270.4
80°	2549.6	1831.7	598.6	479.3	322.2	256.6	236.7	226.8	212.8	202.9	208.8
82.5°	960.6	793.5	342.1	288.4	204.8	171.0	165.1	157.1	151.1	137.3	137.3
85°	467.4	385.8	218.8	153.2	113.4	89.5	85.5	81.5	77.6	67.7	69.6
87.5°	161.1	171.0	95.4	55.7	33.8	21.8	17.9	9.9	9.9	9.9	9.9
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)