

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: P652499

Luminaire Tested: **GALN-SA7B-840-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652499
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-840-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28198.7 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

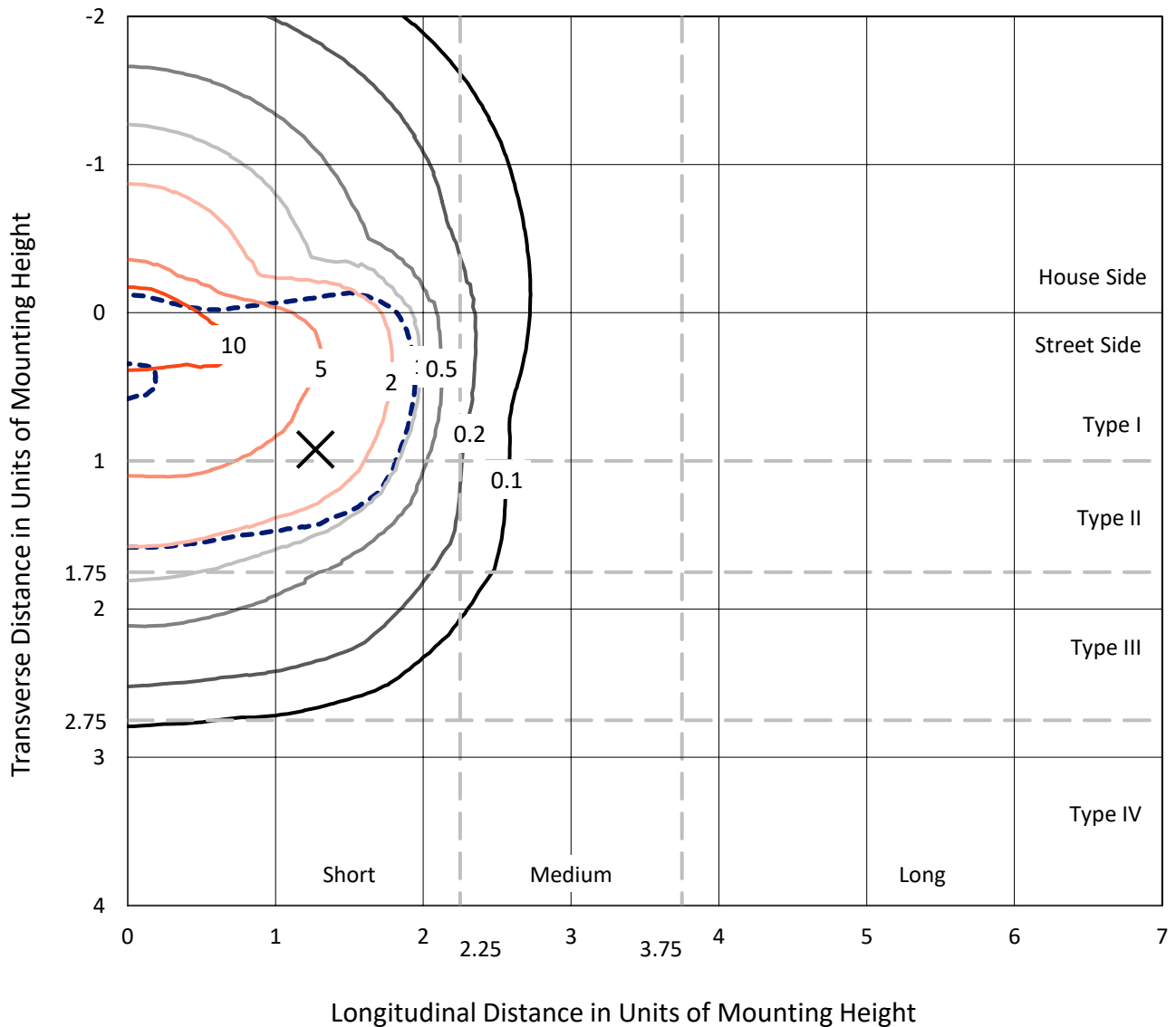
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

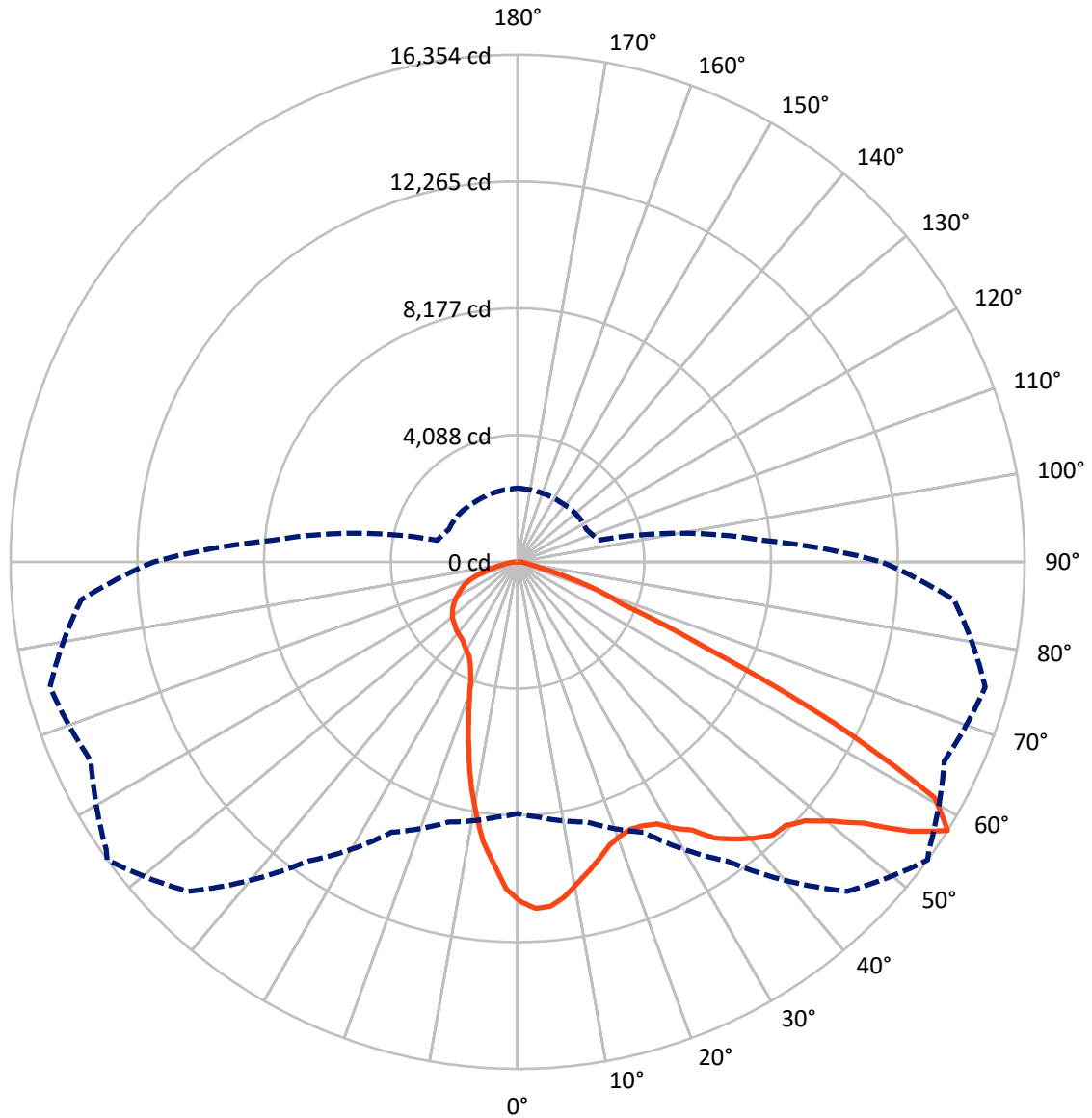
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7801.3	0.0	7801.3
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	20397.4	0.0	20397.4
	% Fixture	72.3	0.0	72.3
Total	Lumens	28198.7	0.0	28198.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	945.2	3.4
10°-20°	2188.6	7.8
20°-30°	3075.0	10.9
30°-40°	4298.8	15.2
40°-50°	5819.8	20.6
50°-60°	7088.8	25.1
60°-70°	3692.1	13.1
70°-80°	946.1	3.4
80°-90°	144.3	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°	28198.7	100.0
0°-180°	28198.7	100.0

Coefficient of Utilization



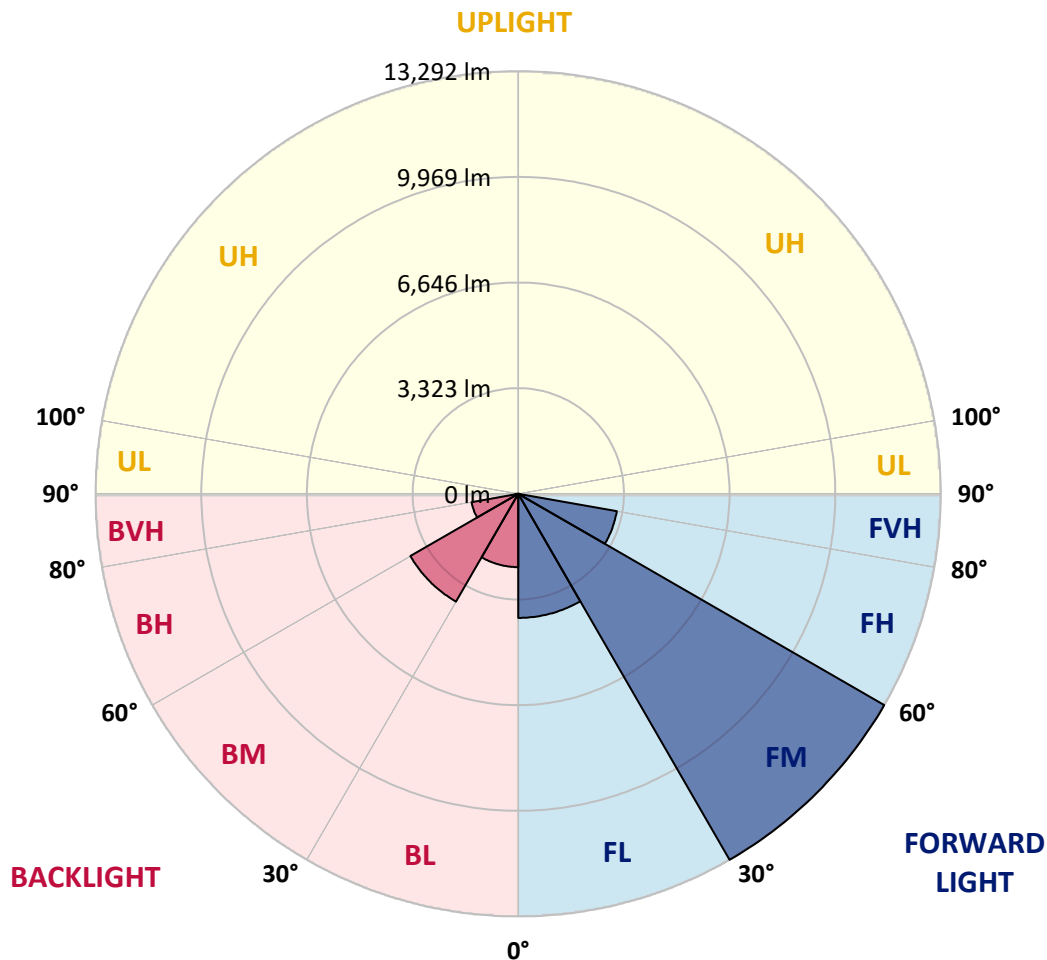
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3903.1	13.8			
FM (30°-60°)	13292.0	47.1			
FH (60°-80°)	3147.8	11.2			G2/5000
FVH (80°-90°)	54.5	0.2			G1/100
BL (0°-30°)	2305.7	8.2	B3/2500		
BM (30°-60°)	3915.4	13.9	B3/5000		
BH (60°-80°)	1490.4	5.3	B3/2500		G3/2500
BVH (80°-90°)	89.8	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	10960.5	10960.5	10960.5	10960.5	10960.5	10960.5	10960.5	10960.5	10960.5	10960.5	10960.5
2.5°	11272.3	11228.7	11236.0	11294.0	11221.5	11192.5	11192.5	11051.2	11062.0	10964.1	10938.8
5°	11011.3	10909.8	10978.7	11065.6	11080.1	11109.1	11156.3	11120.0	11018.5	10913.4	10743.0
7.5°	10329.8	10420.5	10445.8	10507.5	10638.0	10757.6	10906.2	10804.7	10801.0	10695.9	10594.4
10°	9731.8	9677.5	9815.1	9905.8	10123.3	10322.6	10550.9	10540.1	10594.4	10474.8	10300.8
12.5°	9137.4	9093.9	9159.2	9365.7	9670.2	9960.1	10232.0	10130.5	10420.5	10398.7	10025.4
15°	8506.7	8539.3	8633.6	8825.7	9224.3	9572.3	9916.7	9920.3	10177.6	10264.7	9764.4
17.5°	8064.5	8028.3	8147.9	8434.2	8789.5	9206.3	9597.7	9677.5	10072.5	10123.3	9684.7
20°	7734.7	7785.5	7941.3	8086.3	8495.9	8999.6	9441.8	9470.8	10050.8	10188.5	9557.8
22.5°	7655.0	7625.9	7676.7	7912.3	8249.4	8796.7	9358.5	9467.2	10047.2	10166.8	9318.6
25°	7571.6	7665.9	7662.2	7897.8	8144.2	8633.6	9427.4	9546.9	10239.3	10279.1	9351.2
27.5°	7760.1	7749.2	7850.7	7868.8	8173.3	8677.1	9572.3	9662.9	10558.2	10525.6	9376.6
30°	7948.5	7894.2	7955.8	8169.6	8311.0	8927.1	9971.1	9963.7	10971.4	10949.7	9456.4
32.5°	8180.5	8155.2	8195.0	8383.5	8622.7	9260.6	10308.1	10521.9	11391.8	11529.6	9731.8
35°	8224.1	8329.1	8423.4	8677.1	9017.8	9800.7	10942.4	11120.0	11877.5	12308.9	10257.3
37.5°	8499.5	8539.3	8760.4	9209.9	9521.6	10521.9	11344.8	11457.1	12319.7	12809.0	10811.9
40°	8793.1	8840.2	9173.6	9644.8	10072.5	10993.1	11721.7	11757.9	12461.1	13193.2	11174.4
42.5°	9191.8	9235.3	9565.1	10155.9	10728.6	11395.5	12055.1	12095.0	12450.2	13635.4	11750.7
45°	9605.0	9710.1	10097.9	10768.4	11283.1	11866.7	12131.3	12294.3	12551.7	14030.5	12218.2
47.5°	10184.8	10282.7	10601.7	11257.7	11859.4	12279.9	12482.8	12642.3	12794.6	14374.8	12519.0
50°	10801.0	10819.1	11207.0	11801.4	12243.6	12747.4	13138.9	13193.2	13113.5	14773.5	13030.1
52.5°	11254.1	11312.1	11612.9	12192.8	12852.5	13472.3	14008.7	14066.7	13910.9	14922.1	13204.1
55°	10503.8	10471.2	10960.5	11732.5	13262.1	14552.4	15331.7	15375.2	14490.8	15382.4	13773.1
57.5°	8118.9	8274.8	8691.6	9623.1	11783.3	15030.9	16353.8	16197.9	15186.7	15614.4	14135.6
60°	5900.7	5864.5	6143.6	6766.9	8880.0	12954.0	15462.2	15621.7	14617.7	14074.0	11656.4
62.5°	4806.1	4755.4	4777.1	4798.8	5730.3	8597.4	11446.2	11442.6	11257.7	10116.1	7861.6
65°	3842.0	3961.6	3972.5	4135.5	4255.2	5135.9	6632.9	6988.0	6085.6	4990.9	3620.9
67.5°	2896.0	2852.5	2997.5	3577.4	3802.1	3707.9	3620.9	3660.8	2602.4	1877.5	1768.8
70°	1707.1	1689.1	1863.0	2493.6	3131.5	2946.7	2729.3	2732.9	1786.9	1312.0	1460.6
72.5°	935.1	931.5	967.7	1264.9	1779.6	1848.5	1638.3	1689.1	1065.6	1062.0	1141.7
75°	521.9	511.1	500.1	558.2	641.5	677.8	692.3	699.5	732.2	819.1	851.8
77.5°	192.1	184.9	184.9	213.9	271.8	340.7	431.3	438.6	518.3	594.4	627.0
80°	65.3	72.5	97.9	134.1	181.2	242.9	293.6	300.8	366.1	416.8	427.7
82.5°	39.9	43.5	65.3	94.3	130.5	170.4	217.5	221.1	271.8	304.4	319.0
85°	18.1	21.8	36.2	58.0	83.3	112.4	116.0	116.0	112.4	116.0	108.7
87.5°	0.0	0.0	7.2	7.2	7.2	10.8	14.5	10.8	18.1	21.8	21.8
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°	10960.5	10960.5	10960.5	10960.5	10960.5	10960.5	10960.5	10960.5	10960.5	10960.5	10960.5
2.5°	10862.7	10822.8	10699.5	10590.8	10558.2	10413.3	10199.4	10224.7	10068.9	10141.4	10065.3
5°	10714.1	10579.9	10264.7	10130.5	9778.9	9619.4	9510.7	9238.9	9112.0	9086.7	8977.9
7.5°	10333.5	10250.1	9855.0	9492.6	9119.3	8800.3	8390.7	8111.7	7912.3	7858.0	7698.4
10°	10032.6	9847.8	9300.5	8749.6	8216.7	7662.2	7129.4	6712.6	6509.6	6274.0	6194.3
12.5°	9735.4	9456.4	8717.0	8010.2	7321.5	6621.9	5976.8	5469.4	5027.2	4922.1	4885.9
15°	9550.6	9064.9	8195.0	7343.3	6364.6	5451.3	4806.1	4472.6	4200.8	4088.4	4168.2
17.5°	9307.8	8742.4	7694.8	6560.4	5483.9	4643.0	4103.0	3896.4	3798.5	3809.4	3776.8
20°	9003.3	8437.8	7038.8	5850.0	4697.4	4026.8	3718.7	3642.6	3657.2	3682.5	3671.6
22.5°	8785.8	8068.1	6564.0	5125.1	4059.4	3686.1	3559.3	3504.9	3552.0	3573.7	3555.7
25°	8619.1	7752.8	5987.7	4483.5	3689.7	3494.0	3436.1	3432.4	3504.9	3533.9	3515.8
27.5°	8466.9	7459.2	5415.0	3994.2	3443.3	3345.4	3327.3	3370.8	3417.9	3446.9	3472.3
30°	8376.3	7234.5	4878.6	3584.7	3320.0	3272.9	3240.3	3280.2	3305.6	3334.6	3320.0
32.5°	8463.2	7075.1	4360.2	3352.6	3218.6	3171.4	3215.0	3189.6	3233.1	3258.5	3218.6
35°	8735.0	6933.7	3990.6	3229.4	3102.6	3120.7	3127.9	3117.1	3135.2	3113.5	3160.6
37.5°	9003.3	6882.9	3649.9	3124.3	3048.2	3048.2	3041.0	3019.2	3055.4	3048.2	3070.0
40°	9344.0	6915.5	3360.0	3012.0	2997.5	2990.3	2961.2	2957.6	2943.1	2946.7	2954.0
42.5°	9641.2	6988.0	3193.2	2939.5	2950.3	2964.9	2910.4	2867.0	2885.1	2848.9	2848.9
45°	9956.5	7053.3	3044.6	2888.8	2877.9	2874.2	2830.7	2805.4	2790.9	2794.5	2827.1
47.5°	10453.1	7147.6	2932.2	2819.9	2827.1	2772.8	2761.8	2729.3	2743.8	2765.5	2769.2
50°	10804.7	7346.9	2845.3	2740.1	2765.5	2729.3	2664.0	2649.5	2649.5	2685.7	2678.5
52.5°	11051.2	7625.9	2761.8	2653.1	2664.0	2635.0	2613.2	2580.7	2558.9	2609.6	2635.0
55°	11805.0	8089.9	2740.1	2580.7	2577.0	2548.1	2508.2	2475.6	2464.6	2472.0	2522.7
57.5°	11732.5	7944.9	2671.3	2453.8	2446.6	2406.7	2366.8	2355.9	2352.3	2359.6	2374.1
60°	9525.3	5868.1	2384.9	2308.8	2297.9	2290.7	2250.9	2207.3	2185.6	2207.3	2189.2
62.5°	6303.0	3929.0	2102.2	2134.9	2142.1	2123.9	2058.7	2015.2	2022.4	2047.8	2008.0
65°	3095.3	2308.8	1906.5	1993.5	2000.7	1950.0	1888.4	1837.7	1812.3	1834.0	1815.9
67.5°	1768.8	1765.2	1747.0	1837.7	1834.0	1783.3	1685.4	1641.9	1598.4	1605.6	1594.8
70°	1500.5	1529.5	1565.8	1620.2	1616.6	1558.5	1442.6	1409.9	1348.3	1341.1	1323.0
72.5°	1181.6	1232.3	1312.0	1351.9	1319.4	1246.9	1170.8	1116.3	1062.0	1029.4	1040.2
75°	877.2	949.7	993.1	1018.5	967.7	927.9	866.2	801.1	735.8	706.8	695.9
77.5°	637.9	659.7	699.5	717.6	685.0	645.1	608.9	543.7	482.1	442.2	431.3
80°	445.8	460.3	489.3	489.3	489.3	471.2	424.0	358.9	319.0	282.7	275.4
82.5°	311.7	326.2	355.2	340.7	337.1	315.3	286.4	235.6	192.1	166.7	159.5
85°	108.7	119.6	145.0	174.0	184.9	181.2	163.1	130.5	101.5	83.3	76.1
87.5°	25.4	25.4	29.0	25.4	25.4	29.0	25.4	25.4	25.4	18.1	14.5
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)