

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: P530678

Luminaire Tested: **GALN-SA5D-830-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530678
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-SA5D-830-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1200mA 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: 26044 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 309
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

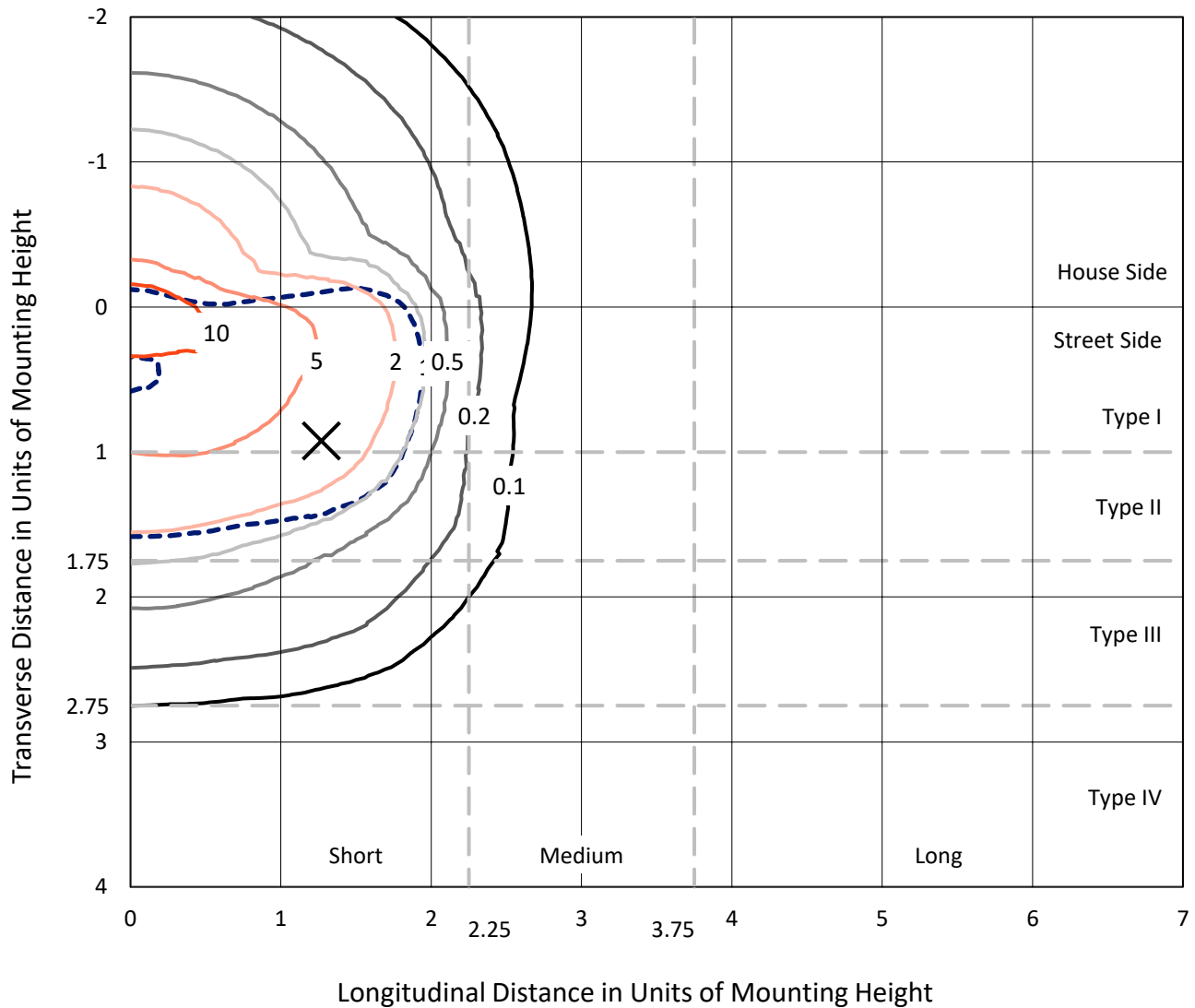


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

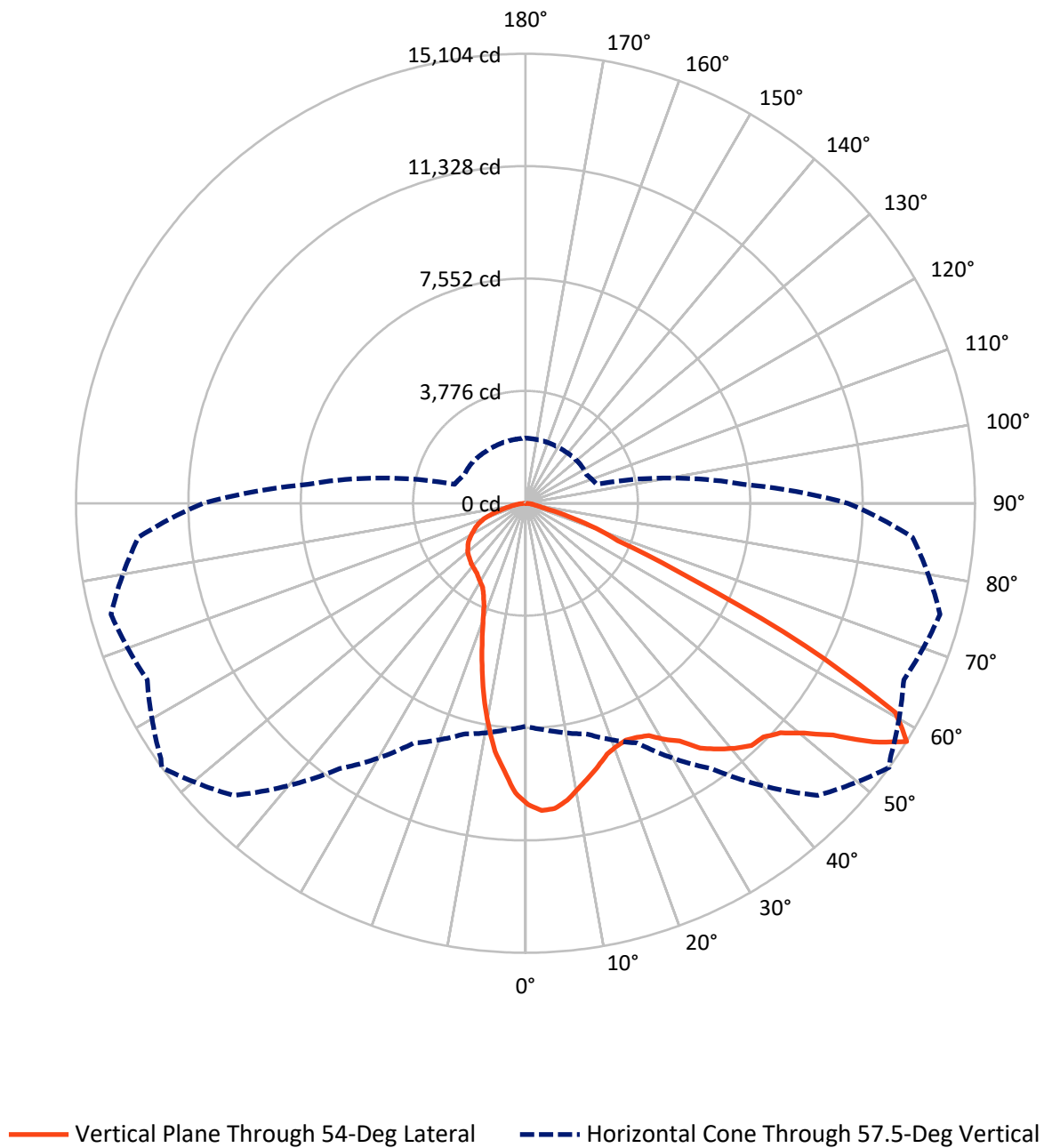


Based on 25 foot mounting height. Maximum calculated value = 16.2 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7205.2	0.0	7205.2
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	18838.8	0.0	18838.8
	% Fixture	72.3	0.0	72.3
Total	Lumens	26044.0	0.0	26044.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	873.0	3.4
10°-20°	2021.3	7.8
20°-30°	2840.0	10.9
30°-40°	3970.4	15.2
40°-50°	5375.1	20.6
50°-60°	6547.1	25.1
60°-70°	3410.0	13.1
70°-80°	873.8	3.4
80°-90°	133.3	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°	26044.0	100.0
0°-180°	26044.0	100.0

Coefficient of Utilization



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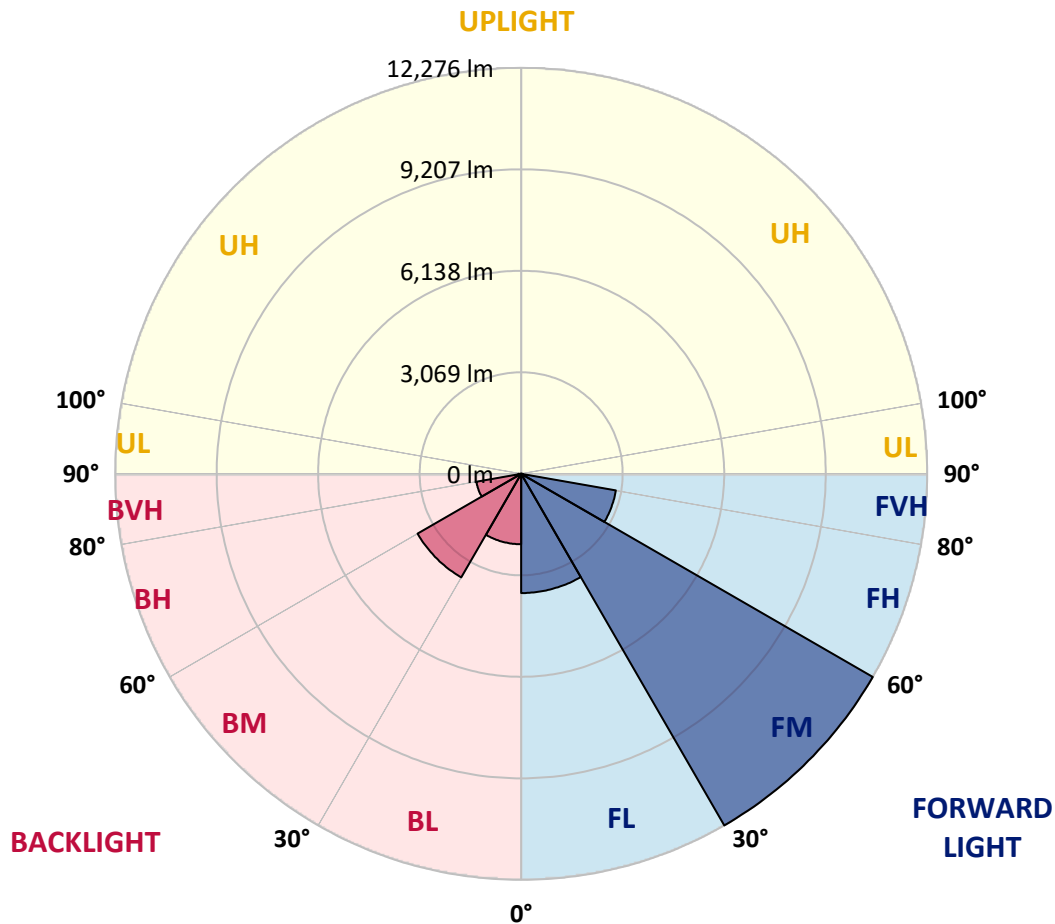
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3604.8	13.8			
FM	(30°-60°)	12276.3	47.1			
FH	(60°-80°)	2907.2	11.2			G2/5000
FVH	(80°-90°)	50.4	0.2			G1/100
BL	(0°-30°)	2129.5	8.2	B3/2500		
BM	(30°-60°)	3616.2	13.9	B3/5000		
BH	(60°-80°)	1376.6	5.3	B3/2500		G3/2500
BVH	(80°-90°)	82.9	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°	10123.0	10123.0	10123.0	10123.0	10123.0	10123.0	10123.0	10123.0	10123.0	10123.0	10123.0
2.5°	10410.9	10370.7	10377.4	10431.0	10364.0	10337.2	10337.2	10206.7	10216.7	10126.4	10102.9
5°	10169.9	10076.1	10139.7	10220.1	10233.5	10260.3	10303.8	10270.3	10176.6	10079.5	9922.2
7.5°	9540.5	9624.2	9647.7	9704.6	9825.1	9935.5	10072.8	9979.1	9975.7	9878.6	9784.9
10°	8988.2	8938.0	9065.2	9148.9	9349.7	9533.8	9744.7	9734.7	9784.9	9674.4	9513.7
12.5°	8439.2	8399.0	8459.3	8650.1	8931.3	9199.1	9450.1	9356.4	9624.2	9604.1	9259.3
15°	7856.7	7886.8	7973.9	8151.3	8519.5	8840.9	9158.9	9162.3	9399.9	9480.3	9018.3
17.5°	7448.3	7414.8	7525.3	7789.8	8117.8	8502.8	8864.3	8938.0	9302.9	9349.7	8944.7
20°	7143.7	7190.5	7334.5	7468.4	7846.7	8312.0	8720.4	8747.2	9282.8	9410.0	8827.5
22.5°	7070.0	7043.3	7090.1	7307.7	7619.0	8124.5	8643.4	8743.8	9279.4	9389.9	8606.6
25°	6993.0	7080.1	7076.7	7294.3	7522.0	7973.9	8707.0	8817.5	9456.8	9493.7	8636.7
27.5°	7167.1	7157.1	7250.8	7267.5	7548.7	8014.0	8840.9	8924.6	9751.4	9721.3	8660.1
30°	7341.2	7291.0	7347.9	7545.4	7675.9	8245.0	9209.1	9202.4	10133.0	10113.0	8733.8
32.5°	7555.4	7532.0	7568.8	7742.9	7963.8	8553.0	9520.4	9718.0	10521.4	10648.6	8988.2
35°	7595.6	7692.7	7779.7	8014.0	8328.7	9051.8	10106.3	10270.3	10969.9	11368.3	9473.6
37.5°	7850.0	7886.8	8091.0	8506.1	8794.0	9718.0	10477.8	10581.6	11378.3	11830.3	9985.8
40°	8121.2	8164.7	8472.7	8907.8	9302.9	10153.1	10826.0	10859.5	11508.9	12185.1	10320.5
42.5°	8489.4	8529.6	8834.2	9379.8	9908.8	10524.7	11134.0	11170.8	11498.8	12593.5	10852.8
45°	8871.0	8968.1	9326.3	9945.6	10420.9	10959.9	11204.3	11354.9	11592.6	12958.4	11284.6
47.5°	9406.6	9497.0	9791.6	10397.5	10953.2	11341.5	11529.0	11676.3	11816.9	13276.4	11562.5
50°	9975.7	9992.4	10350.6	10899.6	11308.0	11773.3	12134.9	12185.1	12111.5	13644.6	12034.5
52.5°	10394.2	10447.7	10725.6	11261.2	11870.4	12442.9	12938.3	12991.9	12847.9	13781.9	12195.1
55°	9701.2	9671.1	10123.0	10836.0	12248.7	13440.4	14160.2	14200.3	13383.5	14207.0	12720.7
57.5°	7498.5	7642.5	8027.4	8887.8	10882.9	13882.3	15104.2	14960.2	14026.3	14421.3	13055.5
60°	5449.8	5416.3	5674.1	6249.9	8201.5	11964.2	14280.7	14428.0	13500.7	12998.6	10765.7
62.5°	4438.9	4392.0	4412.1	4432.2	5292.5	7940.4	10571.6	10568.2	10397.5	9343.0	7260.8
65°	3548.4	3658.9	3668.9	3819.6	3930.0	4743.5	6126.0	6454.1	5620.5	4609.6	3344.2
67.5°	2674.7	2634.5	2768.4	3304.0	3511.6	3424.5	3344.2	3381.0	2403.5	1734.0	1633.6
70°	1576.7	1560.0	1720.6	2303.1	2892.3	2721.6	2520.7	2524.1	1650.3	1211.8	1349.1
72.5°	863.7	860.3	893.8	1168.3	1643.6	1707.3	1513.1	1560.0	984.2	980.8	1054.5
75°	482.0	472.0	462.0	515.5	592.5	626.0	639.4	646.1	676.2	756.5	786.7
77.5°	177.4	170.7	170.7	197.5	251.1	314.7	398.4	405.1	478.7	549.0	579.1
80°	60.3	67.0	90.4	123.9	167.4	224.3	271.2	277.8	338.1	385.0	395.0
82.5°	36.8	40.2	60.3	87.0	120.5	157.3	200.9	204.2	251.1	281.2	294.6
85°	16.7	20.1	33.5	53.6	77.0	103.8	107.1	107.1	103.8	107.1	100.4
87.5°	0.0	0.0	6.7	6.7	6.7	10.0	13.4	10.0	16.7	20.1	20.1
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°	10123.0	10123.0	10123.0	10123.0	10123.0	10123.0	10123.0	10123.0	10123.0	10123.0	10123.0
2.5°	10032.6	9995.8	9882.0	9781.6	9751.4	9617.5	9420.0	9443.5	9299.5	9366.5	9296.2
5°	9895.4	9771.5	9480.3	9356.4	9031.7	8884.4	8784.0	8532.9	8415.8	8392.3	8291.9
7.5°	9543.9	9466.9	9102.0	8767.2	8422.4	8127.9	7749.6	7491.8	7307.7	7257.5	7110.2
10°	9266.0	9095.3	8589.8	8081.0	7588.9	7076.7	6584.6	6199.7	6012.2	5794.6	5721.0
12.5°	8991.5	8733.8	8050.9	7398.1	6762.1	6116.0	5520.1	5051.5	4643.1	4546.0	4512.5
15°	8820.8	8372.2	7568.8	6782.1	5878.3	5034.7	4438.9	4130.9	3879.8	3776.0	3849.7
17.5°	8596.5	8074.3	7106.9	6059.1	5064.8	4288.2	3789.4	3598.6	3508.2	3518.3	3488.2
20°	8315.3	7793.1	6501.0	5403.0	4338.4	3719.1	3434.6	3364.3	3377.7	3401.1	3391.1
22.5°	8114.5	7451.7	6062.4	4733.4	3749.3	3404.5	3287.3	3237.1	3280.6	3300.7	3284.0
25°	7960.5	7160.4	5530.2	4140.9	3407.8	3227.0	3173.5	3170.1	3237.1	3263.9	3247.1
27.5°	7819.9	6889.3	5001.2	3689.0	3180.2	3089.8	3073.1	3113.2	3156.7	3183.5	3207.0
30°	7736.2	6681.7	4505.8	3310.7	3066.4	3022.8	2992.7	3029.5	3053.0	3079.8	3066.4
32.5°	7816.5	6534.4	4027.1	3096.5	2972.6	2929.1	2969.3	2945.8	2986.0	3009.5	2972.6
35°	8067.6	6403.9	3685.7	2982.7	2865.5	2882.2	2888.9	2878.9	2895.6	2875.5	2919.1
37.5°	8315.3	6357.0	3371.0	2885.6	2815.3	2815.3	2808.6	2788.5	2822.0	2815.3	2835.4
40°	8630.0	6387.1	3103.2	2781.8	2768.4	2761.7	2735.0	2731.6	2718.2	2721.6	2728.3
42.5°	8904.5	6454.1	2949.2	2714.9	2724.9	2738.3	2688.1	2647.9	2664.7	2631.2	2631.2
45°	9195.7	6514.3	2811.9	2668.0	2658.0	2654.6	2614.4	2591.0	2577.6	2581.0	2611.1
47.5°	9654.3	6601.4	2708.2	2604.4	2611.1	2560.9	2550.8	2520.7	2534.1	2554.2	2557.5
50°	9979.1	6785.5	2627.8	2530.8	2554.2	2520.7	2460.5	2447.1	2447.1	2480.5	2473.8
52.5°	10206.7	7043.3	2550.8	2450.4	2460.5	2433.7	2413.6	2383.5	2363.4	2410.2	2433.7
55°	10903.0	7471.7	2530.8	2383.5	2380.1	2353.3	2316.5	2286.4	2276.3	2283.0	2329.9
57.5°	10836.0	7337.8	2467.1	2266.3	2259.6	2222.8	2186.0	2175.9	2172.6	2179.3	2192.6
60°	8797.4	5419.7	2202.7	2132.4	2122.3	2115.7	2078.8	2038.7	2018.6	2038.7	2021.9
62.5°	5821.4	3628.7	1941.6	1971.7	1978.4	1961.7	1901.4	1861.2	1867.9	1891.4	1854.5
65°	2858.8	2132.4	1760.8	1841.2	1847.9	1801.0	1744.1	1697.2	1673.8	1693.9	1677.1
67.5°	1633.6	1630.3	1613.5	1697.2	1693.9	1647.0	1556.6	1516.4	1476.3	1483.0	1472.9
70°	1385.9	1412.7	1446.1	1496.4	1493.0	1439.4	1332.3	1302.2	1245.3	1238.6	1221.9
72.5°	1091.3	1138.2	1211.8	1248.6	1218.5	1151.6	1081.3	1031.0	980.8	950.7	960.7
75°	810.1	877.1	917.2	940.7	893.8	857.0	800.1	739.8	679.6	652.8	642.7
77.5°	589.2	609.3	646.1	662.8	632.7	595.9	562.4	502.1	445.2	408.4	398.4
80°	411.7	425.1	451.9	451.9	451.9	435.2	391.7	331.4	294.6	261.1	254.4
82.5°	287.9	301.3	328.1	314.7	311.3	291.2	264.5	217.6	177.4	154.0	147.3
85°	100.4	110.5	133.9	160.7	170.7	167.4	150.6	120.5	93.7	77.0	70.3
87.5°	23.4	23.4	26.8	23.4	23.4	26.8	23.4	23.4	23.4	16.7	13.4
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)