

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: P532783

Luminaire Tested: **GALN-SA8A-830-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532783
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-830-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17161 lumens
Efficiency: N/A
Efficacy: 70.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 244
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



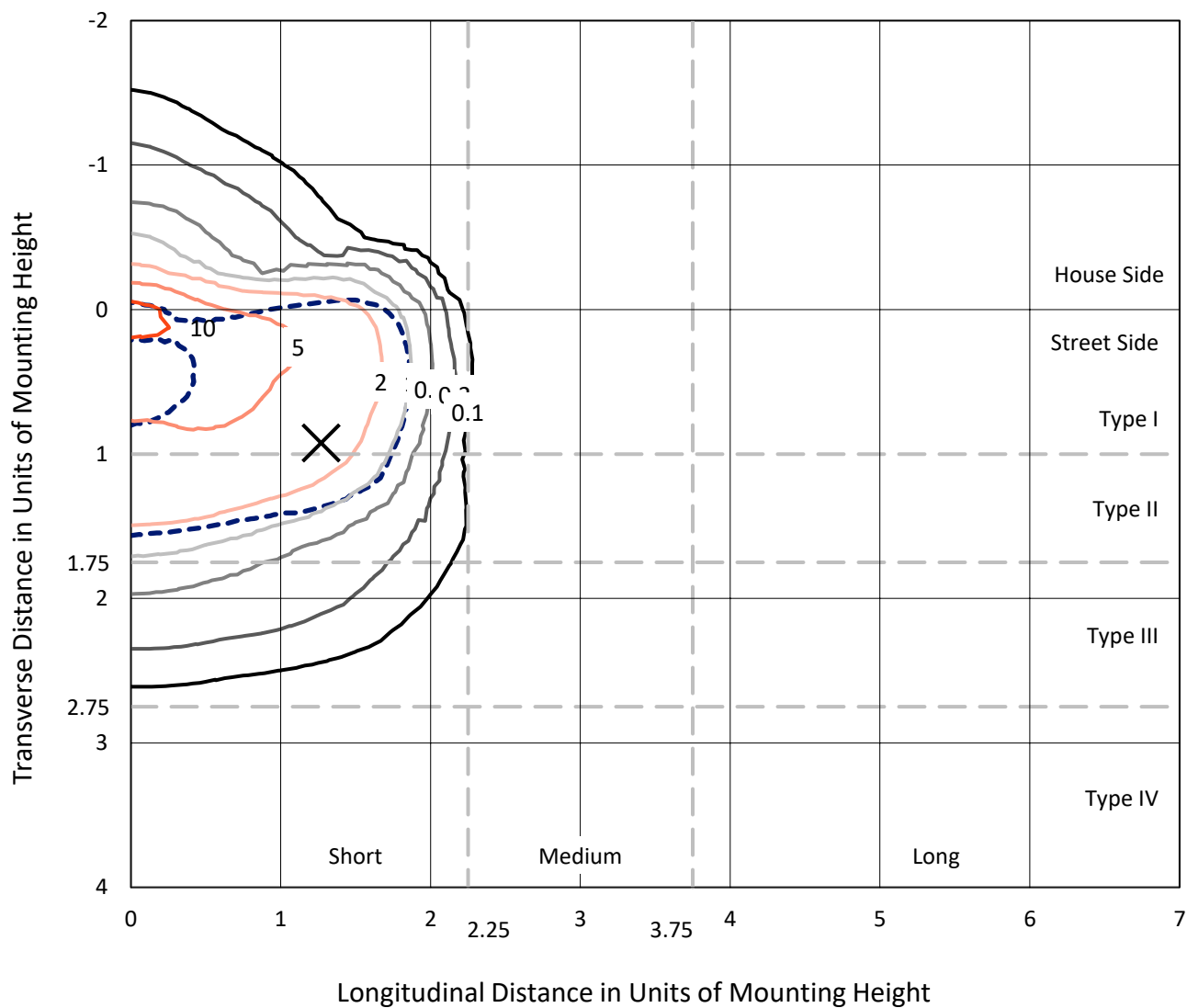
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

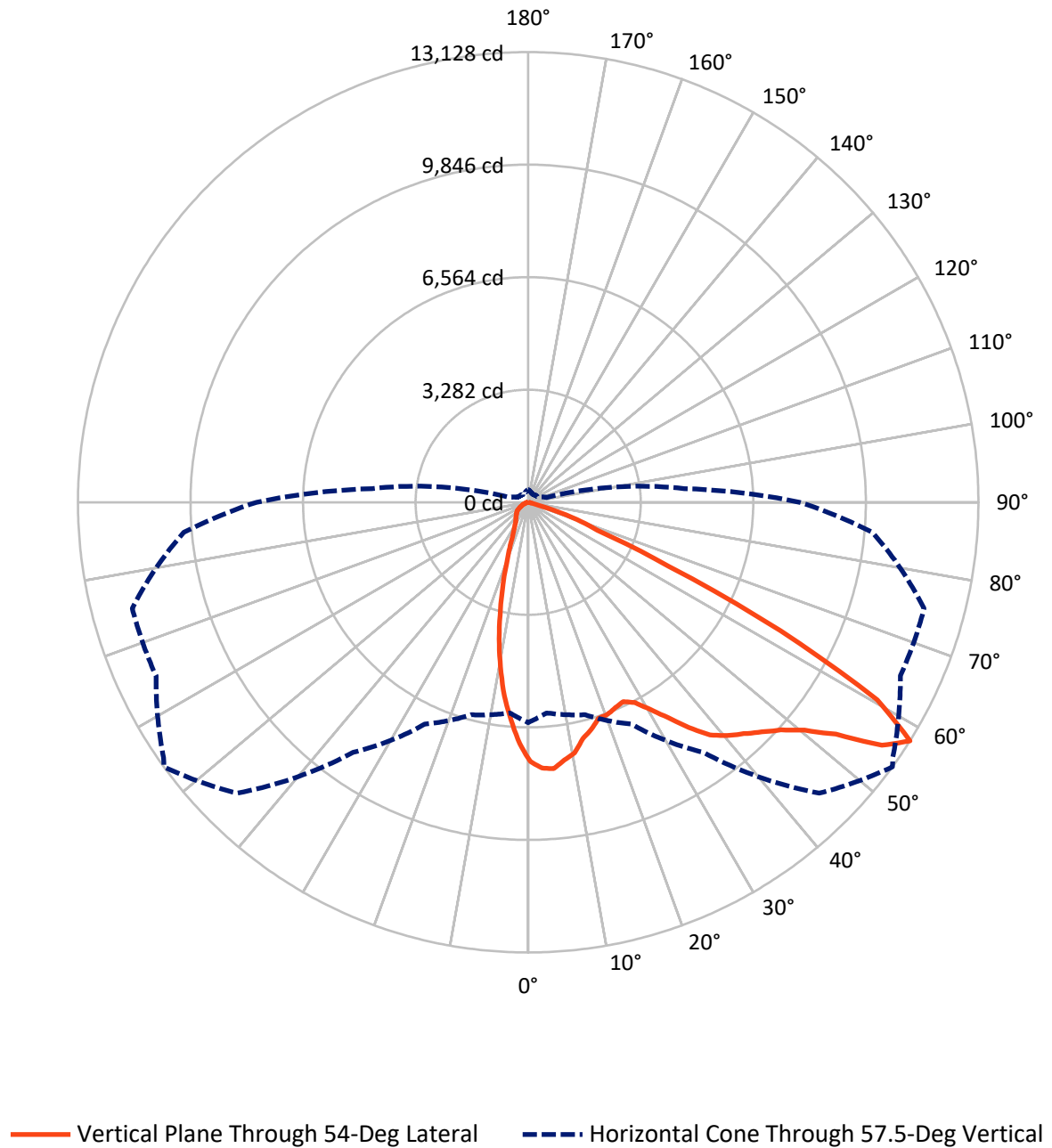


Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2425.1	0.0	2425.1
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	14735.9	0.0	14735.9
	% Fixture	85.9	0.0	85.9
Total	Lumens	17161.0	0.0	17161.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	632.6	3.7
10°-20°	1350.6	7.9
20°-30°	1789.8	10.4
30°-40°	2601.1	15.2
40°-50°	3857.1	22.5
50°-60°	4823.1	28.1
60°-70°	1902.5	11.1
70°-80°	189.4	1.1
80°-90°	14.7	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°	17161.0	100.0
0°-180°	17161.0	100.0

Coefficient of Utilization



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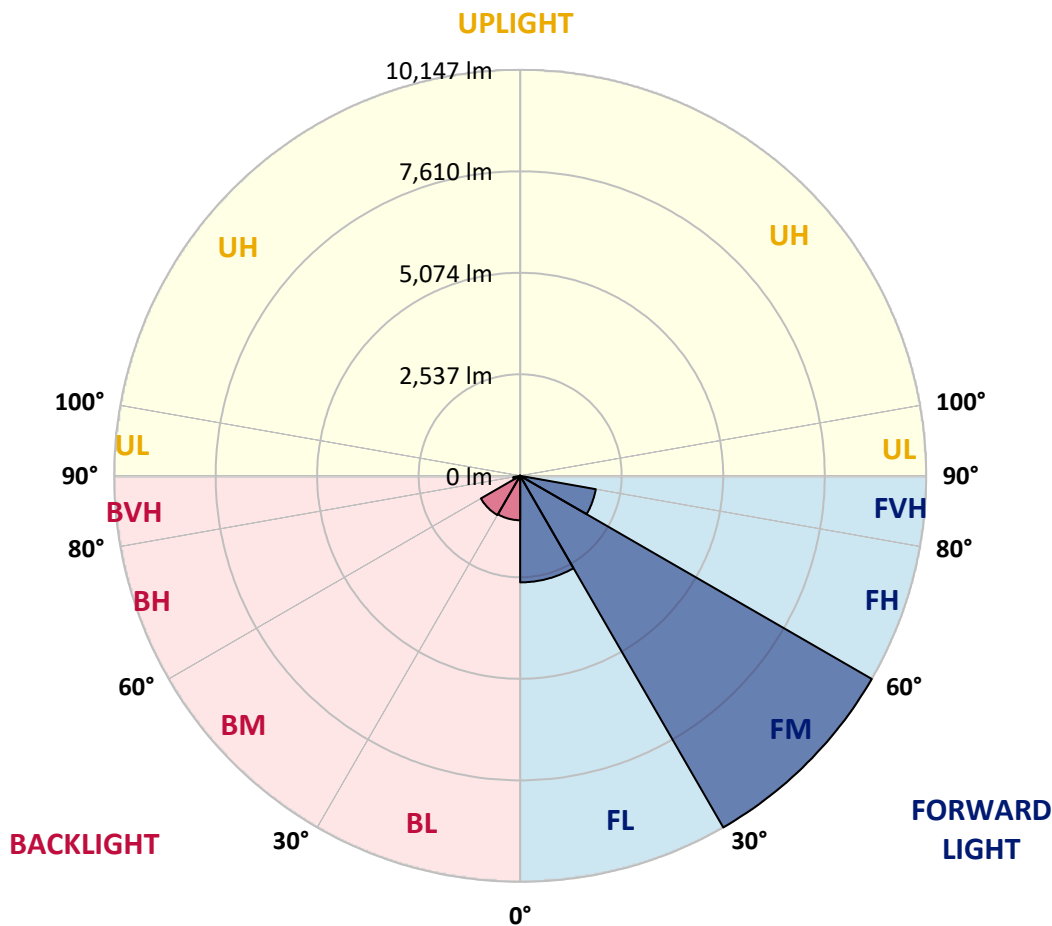
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2663.9	15.5			
FM	(30°-60°)	10147.3	59.1			
FH	(60°-80°)	1918.0	11.2			G2/5000
FVH	(80°-90°)	6.7	0.0			G0/10
BL	(0°-30°)	1109.1	6.5	B3/2500		
BM	(30°-60°)	1134.1	6.6	B2/2500		
BH	(60°-80°)	173.9	1.0	B1/500		G1/500
BVH	(80°-90°)	8.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7559.7	7559.7	7559.7	7559.7	7559.7	7559.7	7559.7	7559.7	7559.7	7559.7	7559.7
2.5°	8000.0	7917.1	7923.4	7894.7	7856.4	7885.1	7760.7	7789.4	7786.2	7617.1	7505.4
5°	7799.0	7888.3	7795.8	7872.4	7799.0	7878.8	7802.2	7744.7	7652.2	7527.7	7320.3
7.5°	7457.5	7371.4	7396.9	7492.6	7508.6	7687.3	7591.6	7665.0	7626.7	7381.0	7096.9
10°	6771.5	6752.3	6880.0	7007.6	7164.0	7355.4	7428.8	7387.3	7358.6	7266.1	6886.3
12.5°	6244.9	6299.2	6296.0	6506.6	6771.5	6880.0	7071.4	7065.0	7224.6	7052.3	6688.5
15°	5743.9	5772.7	5906.7	6037.5	6331.1	6640.6	6876.8	6908.7	7100.1	6978.9	6535.3
17.5°	5437.6	5396.1	5501.4	5657.8	5957.7	6363.0	6624.7	6701.3	6962.9	6937.4	6359.8
20°	5134.4	5134.4	5220.6	5405.7	5680.1	6136.4	6602.3	6580.0	6962.9	6889.5	6171.5
22.5°	5032.3	5083.4	5105.7	5246.1	5571.6	5964.1	6506.6	6548.1	7017.2	6867.2	6088.6
25°	5172.7	5105.7	5112.1	5223.8	5530.1	5881.1	6436.4	6528.9	7116.1	6978.9	6021.6
27.5°	5195.1	5262.1	5281.2	5357.8	5562.0	5906.7	6611.9	6800.2	7361.8	7240.5	6040.7
30°	5389.7	5456.7	5453.5	5584.4	5724.8	6114.1	7004.4	7042.7	7869.2	7569.2	6158.8
32.5°	5625.9	5696.1	5718.4	5871.6	5983.3	6493.8	7483.1	7582.0	8357.4	8086.2	6468.3
35°	5919.4	5893.9	5996.0	6149.2	6388.5	7049.1	8067.0	8233.0	8883.9	8756.3	6787.4
37.5°	6286.4	6254.5	6353.4	6602.3	6927.8	7706.4	8606.3	8714.8	9266.9	9378.6	7377.8
40°	6544.9	6557.7	6857.6	7192.7	7537.3	8331.9	8947.8	9053.1	9534.9	9959.3	7824.5
42.5°	6975.7	7055.5	7416.1	7824.5	8185.1	8801.0	9225.4	9327.5	9659.4	10425.2	8427.6
45°	7601.1	7566.0	7964.9	8421.2	8820.1	9289.2	9554.1	9519.0	9732.8	10887.9	8807.4
47.5°	8405.3	8411.7	8676.5	9065.8	9480.7	9713.6	9921.0	9796.6	9885.9	11376.2	9314.7
50°	8954.2	9002.0	9215.8	9614.7	9822.1	10179.5	10444.4	10367.8	10339.1	11669.8	9633.8
52.5°	9094.6	9238.2	9353.0	9850.8	10335.9	10900.7	11239.0	11401.7	10891.1	11768.7	10039.1
55°	8035.1	8162.8	8568.0	9250.9	10530.5	12043.1	12509.0	12512.2	11612.3	12209.0	10323.1
57.5°	6423.6	6165.2	6414.1	7138.4	8903.1	11995.2	13128.1	12978.1	11972.9	11950.6	10077.4
60°	4442.0	4378.2	4394.1	4681.3	6162.0	9541.3	11698.5	11893.1	11025.2	10358.2	7977.7
62.5°	3519.8	3465.5	3395.3	3363.4	3826.1	5945.0	8252.1	8526.5	7709.6	6717.2	4729.2
65°	2757.1	2725.2	2734.7	2862.4	2859.2	3373.0	4512.2	4400.5	3522.9	2603.9	1487.0
67.5°	1860.4	1908.3	1946.6	2332.7	2530.5	2348.6	2179.5	2115.7	1145.6	481.9	328.7
70°	1046.7	1053.1	1094.5	1458.3	1921.0	1822.1	1503.0	1503.0	571.2	175.5	188.3
72.5°	571.2	552.1	513.8	628.6	855.2	868.0	670.1	584.0	169.1	114.9	105.3
75°	277.6	274.4	236.1	194.7	185.1	153.2	118.1	108.5	76.6	73.4	63.8
77.5°	57.4	54.2	28.7	28.7	31.9	35.1	44.7	44.7	54.2	54.2	44.7
80°	0.0	0.0	3.2	12.8	22.3	31.9	38.3	38.3	44.7	44.7	35.1
82.5°	0.0	0.0	3.2	9.6	19.1	28.7	35.1	38.3	44.7	47.9	38.3
85°	0.0	0.0	0.0	6.4	16.0	22.3	19.1	19.1	16.0	12.8	6.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7559.7	7559.7	7559.7	7559.7	7559.7	7559.7	7559.7	7559.7	7559.7	7559.7	7559.7
2.5°	7448.0	7441.6	7294.8	7211.8	7061.8	6931.0	6825.7	6749.1	6749.1	6701.3	6656.6
5°	7237.4	7183.1	6870.4	6669.3	6385.3	6174.7	6031.1	5919.4	5743.9	5791.8	5603.5
7.5°	6975.7	6838.5	6423.6	6117.3	5724.8	5424.8	5118.5	4847.2	4585.6	4467.5	4531.3
10°	6694.9	6455.5	5897.1	5412.1	4923.8	4375.0	4017.6	3583.6	3315.5	3299.6	3229.4
12.5°	6398.1	6126.9	5447.2	4777.0	4135.6	3475.1	2929.4	2524.1	2342.2	2141.2	2179.5
15°	6174.7	5772.7	4946.2	4138.8	3286.8	2619.9	2071.0	1758.3	1586.0	1538.1	1522.1
17.5°	5932.2	5501.4	4435.6	3459.1	2578.4	1885.9	1490.2	1340.3	1273.2	1273.2	1263.7
20°	5680.1	5195.1	3928.2	2827.3	1933.8	1407.3	1193.5	1145.6	1142.4	1139.2	1139.2
22.5°	5514.2	4844.0	3468.7	2246.5	1458.3	1126.4	1037.1	1018.0	1030.7	1069.0	1069.0
25°	5338.7	4505.8	2961.3	1732.8	1129.6	966.9	915.8	928.6	960.5	995.6	982.9
27.5°	5160.0	4285.6	2482.7	1359.4	925.4	845.6	826.5	855.2	890.3	922.2	912.6
30°	5118.5	4049.5	2029.5	1030.7	794.6	737.1	749.9	775.4	810.5	823.3	836.1
32.5°	5182.3	3864.4	1662.5	845.6	692.5	676.5	676.5	689.3	711.6	740.3	730.8
35°	5364.2	3759.1	1314.7	733.9	635.0	619.1	615.9	628.6	641.4	651.0	641.4
37.5°	5641.8	3676.1	1075.4	651.0	596.7	571.2	564.8	561.6	574.4	577.6	584.0
40°	5996.0	3720.8	912.6	599.9	558.4	529.7	510.6	510.6	510.6	520.1	523.3
42.5°	6379.0	3781.4	788.2	571.2	523.3	488.2	469.1	462.7	469.1	481.9	478.7
45°	6781.0	3899.5	708.4	526.5	491.4	446.8	421.2	414.8	430.8	456.3	453.1
47.5°	7157.6	4068.6	647.8	497.8	459.5	418.0	386.1	379.7	408.5	443.6	446.8
50°	7534.1	4362.2	625.5	475.5	437.2	389.3	360.6	354.2	386.1	430.8	440.4
52.5°	7968.1	4678.1	609.5	446.8	411.6	367.0	335.1	328.7	363.8	421.2	424.4
55°	8252.1	4946.2	596.7	395.7	363.8	331.9	306.3	303.2	341.4	392.5	405.3
57.5°	7920.2	4572.8	552.1	344.6	309.5	293.6	271.2	271.2	303.2	351.0	360.6
60°	6005.6	3009.2	392.5	277.6	261.7	252.1	242.5	242.5	268.1	303.2	306.3
62.5°	3516.6	1621.1	252.1	223.4	223.4	213.8	197.8	197.8	223.4	242.5	245.7
65°	1043.5	520.1	204.2	191.5	188.3	172.3	156.4	153.2	172.3	181.9	178.7
67.5°	300.0	239.3	169.1	159.6	156.4	130.8	121.3	118.1	121.3	114.9	111.7
70°	178.7	162.7	130.8	134.0	118.1	95.7	86.2	83.0	76.6	67.0	60.6
72.5°	98.9	98.9	95.7	102.1	83.0	63.8	54.2	44.7	35.1	28.7	25.5
75°	60.6	63.8	67.0	70.2	54.2	41.5	35.1	22.3	12.8	6.4	6.4
77.5°	41.5	44.7	47.9	51.1	44.7	38.3	28.7	16.0	3.2	0.0	0.0
80°	31.9	35.1	41.5	44.7	47.9	51.1	38.3	16.0	3.2	0.0	0.0
82.5°	35.1	38.3	47.9	44.7	44.7	44.7	35.1	16.0	3.2	0.0	0.0
85°	6.4	9.6	16.0	16.0	22.3	28.7	22.3	6.4	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)