

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: P531039

Luminaire Tested: **GALN-SA6B-740-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531039
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-740-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19695 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

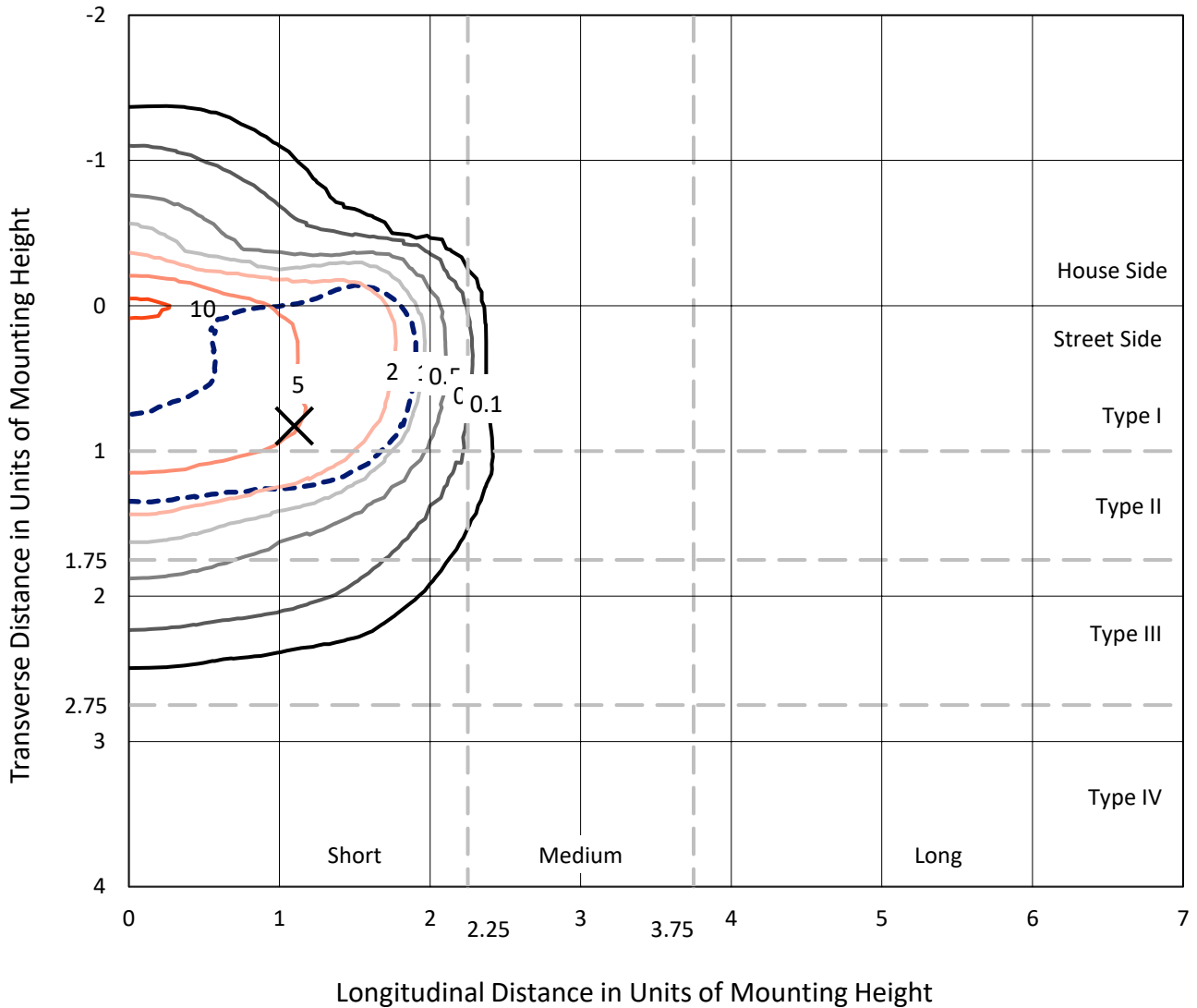
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P531039
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Iso-Footcandle Lines of Horizontal Illumination

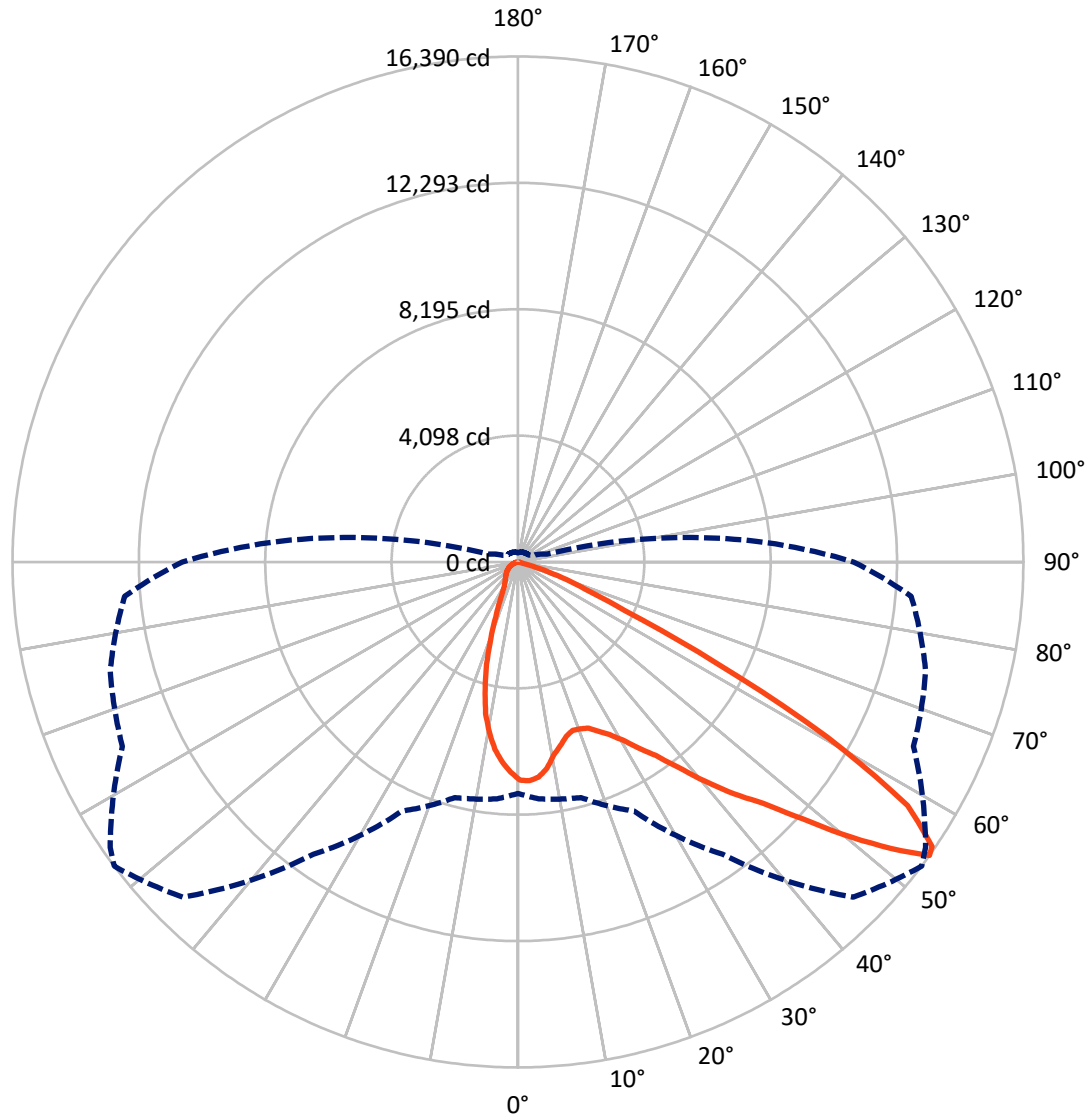
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type II - Short - N/A

REPORT NUMBER: P531039
CATALOG NUMBER: GALN-SA6B-740-U-SL2-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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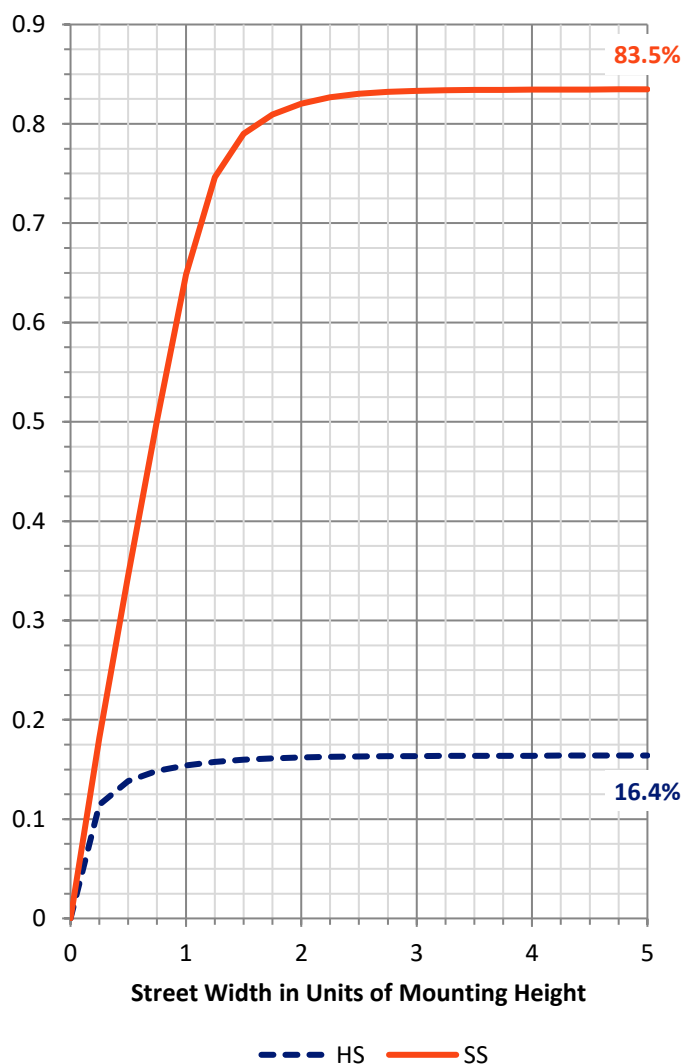
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3258.6	0.0	3258.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	16436.4	0.0	16436.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	19695.0	0.0	19695.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	606.9	3.1
10°-20°	1391.5	7.1
20°-30°	1977.7	10.0
30°-40°	3052.0	15.5
40°-50°	4785.3	24.3
50°-60°	5558.8	28.2
60°-70°	2100.5	10.7
70°-80°	199.7	1.0
80°-90°	22.5	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°	19695.0	100.0
0°-180°	19695.0	100.0

Coefficient of Utilization

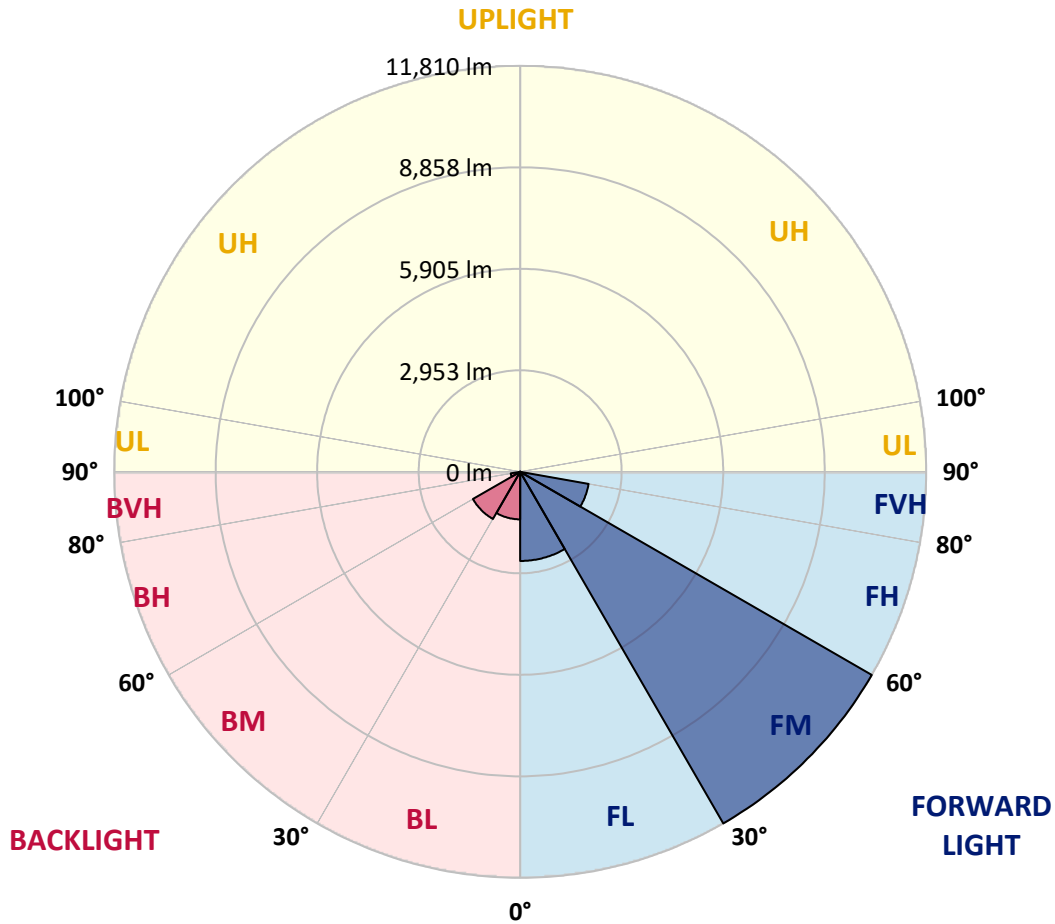


REPORT NUMBER: P531039
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2593.3	13.2			
FM (30°-60°)	11810.5	60.0			
FH (60°-80°)	2021.0	10.3			G2/5000
FVH (80°-90°)	11.6	0.1			G1/100
BL (0°-30°)	1382.8	7.0	B3/2500		
BM (30°-60°)	1585.7	8.1	B2/2500		
BH (60°-80°)	279.2	1.4	B1/500		G1/500
BVH (80°-90°)	10.9	0.1			G1/100
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°	53°	55°	65°	75°	85°
0°	7074.1	7074.1	7074.1	7074.1	7074.1	7074.1	7074.1	7074.1	7074.1	7074.1	7074.1
2.5°	7037.4	6975.0	7037.4	7044.8	7088.8	7129.1	7103.5	7162.2	7129.1	7092.5	7081.5
5°	6468.7	6553.1	6556.8	6688.9	6659.5	6901.7	7008.1	6978.7	7158.5	7147.5	7121.8
7.5°	5958.7	5925.7	5969.7	6123.8	6318.3	6597.1	6751.2	6747.6	7004.4	7187.9	7169.5
10°	5485.4	5481.7	5573.4	5694.5	5859.6	6153.2	6366.0	6472.4	6872.3	7151.2	7191.5
12.5°	5166.2	5151.5	5250.5	5349.6	5610.1	5837.6	6109.1	6160.5	6619.1	7022.7	7088.8
15°	4957.0	4990.0	4997.4	5188.2	5353.3	5654.2	5867.0	5973.4	6501.7	6920.0	7173.2
17.5°	4920.3	4964.4	4968.0	5125.8	5301.9	5555.1	5742.2	5885.3	6402.7	6971.4	7176.8
20°	4993.7	4968.0	4990.0	5089.1	5261.6	5503.7	5775.2	5822.9	6369.6	6997.1	7217.2
22.5°	5202.8	5195.5	5140.5	5221.2	5342.3	5595.4	5852.3	5925.7	6465.0	7129.1	7250.2
25°	5434.0	5474.4	5423.0	5412.0	5496.4	5745.9	6087.1	6182.5	6784.2	7367.6	7353.0
27.5°	5867.0	5826.6	5826.6	5775.2	5753.2	5874.3	6340.3	6498.1	7140.2	7675.9	7470.4
30°	6281.6	6325.6	6292.6	6310.9	6164.2	6153.2	6699.9	6894.3	7771.2	8145.5	7719.9
32.5°	6938.4	6879.6	6934.7	6887.0	6692.5	6494.4	7187.9	7389.7	8534.4	8684.9	8094.1
35°	7485.1	7459.4	7694.2	7686.9	7371.3	7176.8	7705.2	8006.1	9066.5	9330.6	8534.4
37.5°	8262.9	8215.2	8483.1	8611.5	8329.0	8039.1	8446.4	8794.9	9561.8	9848.0	8985.7
40°	9062.8	9183.9	9543.4	9756.3	9455.4	9070.1	9352.7	9459.1	9892.0	10185.5	9293.9
42.5°	10075.5	10251.6	10618.5	10802.0	10776.3	10358.0	10273.6	10269.9	10130.5	10090.1	9521.4
45°	11047.8	10981.8	11546.8	11946.7	12269.6	12148.5	11161.5	11051.5	10508.4	10233.2	9580.1
47.5°	11473.4	11451.4	11836.7	12548.5	13649.2	13799.7	12453.1	12027.5	11146.9	10835.0	9899.4
50°	10923.0	11036.8	11418.4	12207.2	13895.1	15043.5	14038.1	13465.8	11891.7	11568.8	10655.2
52.5°	9125.2	9202.2	9565.5	10567.1	13058.5	15777.3	15557.2	15227.0	13260.3	12724.6	11972.4
54°	7503.4	7708.9	7907.0	8912.4	11568.8	15370.0	16390.1	16136.9	14151.9	13685.9	12801.6
55°	6534.7	6655.8	6798.9	7800.6	10537.8	14680.2	16294.7	16316.7	14750.0	13986.8	13359.4
57.5°	4773.6	4857.9	4711.2	5155.1	7235.6	11921.1	14904.1	15498.5	15557.2	14438.1	13700.6
60°	3647.1	3683.8	3518.7	3588.4	4498.4	8182.2	11528.5	12243.9	14034.5	12618.2	11605.5
62.5°	2828.9	2836.2	2832.6	2953.7	3100.4	4813.9	7209.9	7844.6	9675.5	8960.1	7881.3
65°	2084.1	2051.1	2109.8	2476.7	2645.5	3027.0	3797.6	4259.9	5257.9	4439.7	3173.8
67.5°	1350.2	1361.3	1420.0	1841.9	2267.5	2322.6	2337.2	2300.6	2304.2	1269.5	796.2
70°	810.9	829.2	810.9	1042.0	1621.8	1665.8	1522.7	1486.0	1159.4	300.9	297.2
72.5°	480.7	455.0	407.3	447.6	675.1	807.2	726.5	722.8	455.0	176.1	176.1
75°	201.8	183.5	150.4	135.8	179.8	172.4	172.4	154.1	121.1	117.4	110.1
77.5°	40.4	40.4	29.4	33.0	44.0	51.4	62.4	62.4	73.4	73.4	69.7
80°	0.0	3.7	11.0	22.0	33.0	47.7	55.0	55.0	62.4	62.4	51.4
82.5°	0.0	3.7	11.0	22.0	29.4	44.0	55.0	55.0	62.4	66.0	55.0
85°	0.0	3.7	11.0	18.3	29.4	36.7	36.7	33.0	25.7	22.0	14.7
87.5°	0.0	0.0	3.7	7.3	3.7	7.3	7.3	7.3	7.3	7.3	7.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P531039

CATALOG NUMBER: GALN-SA6B-740-U-SL2-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7074.1	7074.1	7074.1	7074.1	7074.1	7074.1	7074.1	7074.1	7074.1	7074.1	7074.1
2.5°	7107.1	7103.5	7015.4	6872.3	6839.3	6718.2	6703.5	6630.1	6670.5	6534.7	6520.1
5°	7048.4	7004.4	6898.0	6806.3	6538.4	6347.6	6197.2	6013.7	5907.3	5925.7	5856.0
7.5°	7132.8	7019.1	6831.9	6512.7	6186.2	5852.3	5672.5	5298.2	5162.5	4960.7	4931.3
10°	7044.8	6960.4	6670.5	6142.1	5690.8	5210.2	4788.2	4373.6	4058.1	3922.3	3893.0
12.5°	7037.4	6890.7	6406.3	5819.3	5166.2	4476.4	3863.6	3346.3	3034.4	2858.3	2817.9
15°	6923.7	6747.6	6109.1	5320.3	4417.7	3559.1	2891.3	2392.3	2153.8	2051.1	2080.4
17.5°	6934.7	6670.5	5811.9	4791.9	3680.2	2612.4	1974.0	1717.2	1654.8	1680.5	1680.5
20°	6923.7	6498.1	5452.3	4182.8	2817.9	1812.6	1449.3	1357.6	1397.9	1478.7	1460.3
22.5°	6865.0	6417.3	5122.1	3540.7	2073.1	1342.9	1163.1	1166.8	1229.2	1328.2	1350.2
25°	6909.0	6237.5	4703.8	2891.3	1511.7	1071.4	1009.0	1034.7	1100.7	1174.1	1188.8
27.5°	6876.0	6109.1	4267.2	2245.5	1104.4	921.0	917.3	946.6	976.0	1031.0	1031.0
30°	6912.7	5991.7	3837.9	1669.5	909.9	843.9	829.2	851.2	880.6	891.6	887.9
32.5°	7048.4	5903.7	3342.6	1247.5	803.5	770.5	770.5	770.5	766.9	781.5	785.2
35°	7345.6	5918.3	2906.0	965.0	733.8	708.1	697.1	682.5	675.1	682.5	686.1
37.5°	7668.5	5911.0	2454.7	821.9	682.5	660.4	634.8	612.7	609.1	616.4	605.4
40°	7811.6	5980.7	2036.4	737.5	634.8	609.1	568.7	550.4	554.0	561.4	554.0
42.5°	8006.1	6002.7	1764.9	671.5	590.7	550.4	524.7	502.7	499.0	510.0	506.3
45°	8002.4	5878.0	1478.7	634.8	550.4	506.3	473.3	455.0	455.0	462.3	466.0
47.5°	8237.2	5859.6	1269.5	601.7	521.0	477.0	436.6	422.0	418.3	418.3	410.9
50°	8783.9	6116.5	1108.1	565.0	484.3	444.0	410.9	392.6	377.9	370.6	366.9
52.5°	9851.7	6916.3	983.3	521.0	444.0	410.9	381.6	366.9	348.6	330.2	326.6
54°	10886.4	7741.9	976.0	484.3	410.9	388.9	363.2	355.9	333.9	308.2	300.9
55°	11352.3	8222.6	1001.7	455.0	388.9	374.3	352.2	344.9	322.9	293.5	289.9
57.5°	11737.6	8409.7	987.0	377.9	352.2	348.6	330.2	319.2	293.5	253.2	245.8
60°	9448.0	6358.6	708.1	333.9	322.9	315.5	300.9	293.5	260.5	216.5	212.8
62.5°	5969.7	3658.1	451.3	293.5	282.5	271.5	253.2	245.8	216.5	172.4	161.4
65°	2542.7	1515.4	304.5	260.5	242.2	223.8	209.1	198.1	172.4	128.4	124.8
67.5°	660.4	539.4	253.2	227.5	201.8	176.1	165.1	146.8	117.4	88.1	84.4
70°	297.2	271.5	212.8	190.8	161.4	135.8	121.1	102.7	77.1	58.7	55.0
72.5°	176.1	172.4	161.4	143.1	121.1	102.7	88.1	69.7	51.4	33.0	33.0
75°	110.1	106.4	110.1	99.1	84.4	77.1	66.0	47.7	29.4	14.7	14.7
77.5°	66.0	66.0	66.0	62.4	58.7	58.7	47.7	29.4	14.7	3.7	3.7
80°	51.4	51.4	55.0	51.4	51.4	51.4	40.4	22.0	7.3	0.0	0.0
82.5°	51.4	55.0	62.4	58.7	51.4	44.0	36.7	22.0	7.3	0.0	0.0
85°	14.7	11.0	18.3	25.7	36.7	33.0	25.7	18.3	7.3	0.0	0.0
87.5°	7.3	7.3	7.3	7.3	3.7	3.7	3.7	3.7	3.7	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)