

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: P530417

Luminaire Tested: **GALN-SA5C-827-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530417
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-SA5C-827-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1050mA 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: 15136 lumens
Efficiency: N/A
Efficacy: 56.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

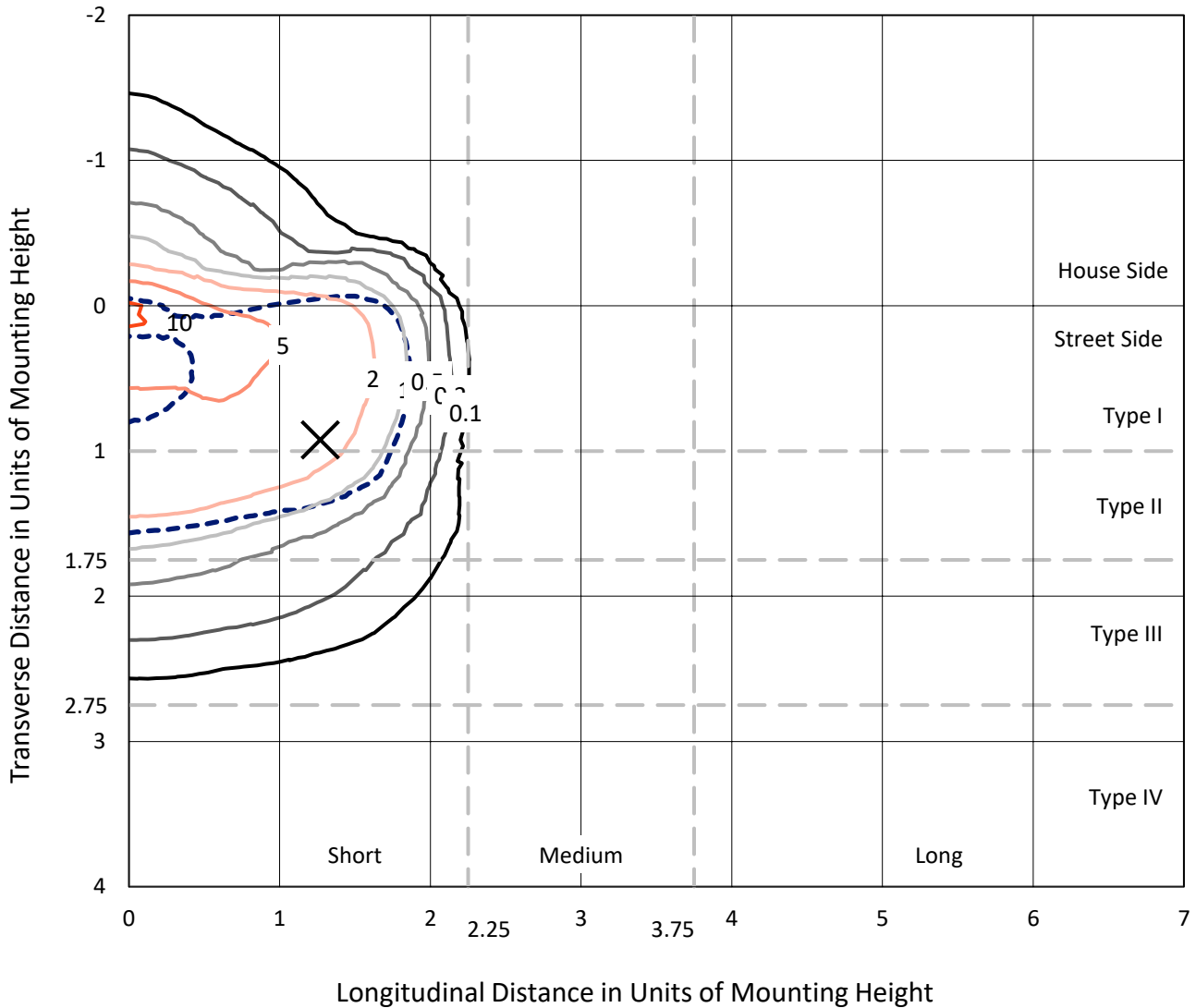
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P530417
 CATALOG NUMBER: GALN-SA5C-827-U-SL3-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

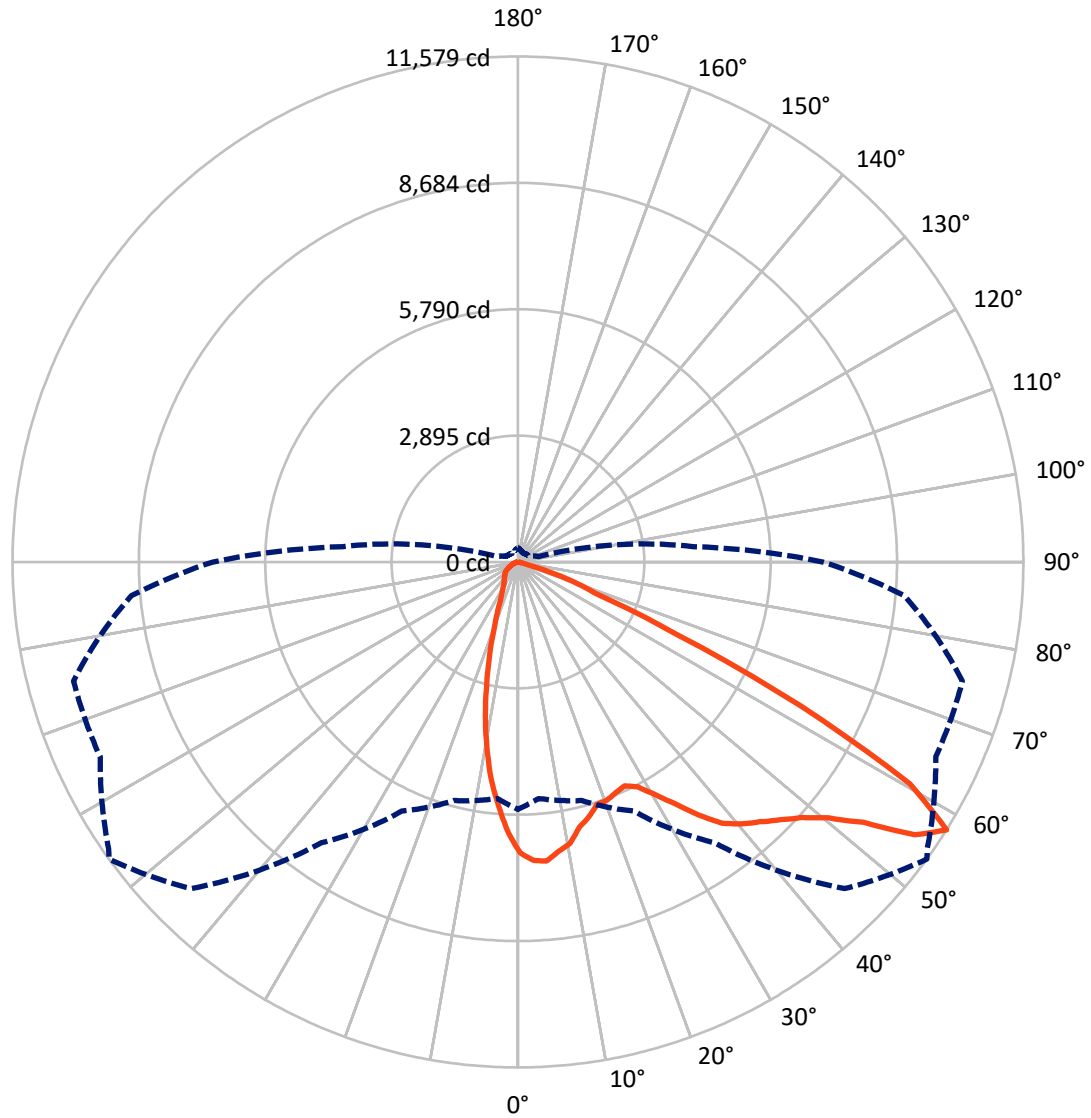
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type II - Short - N/A

REPORT NUMBER: P530417
CATALOG NUMBER: GALN-SA5C-827-U-SL3-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P530417
 CATALOG NUMBER: GALN-SA5C-827-U-SL3-GRSBK

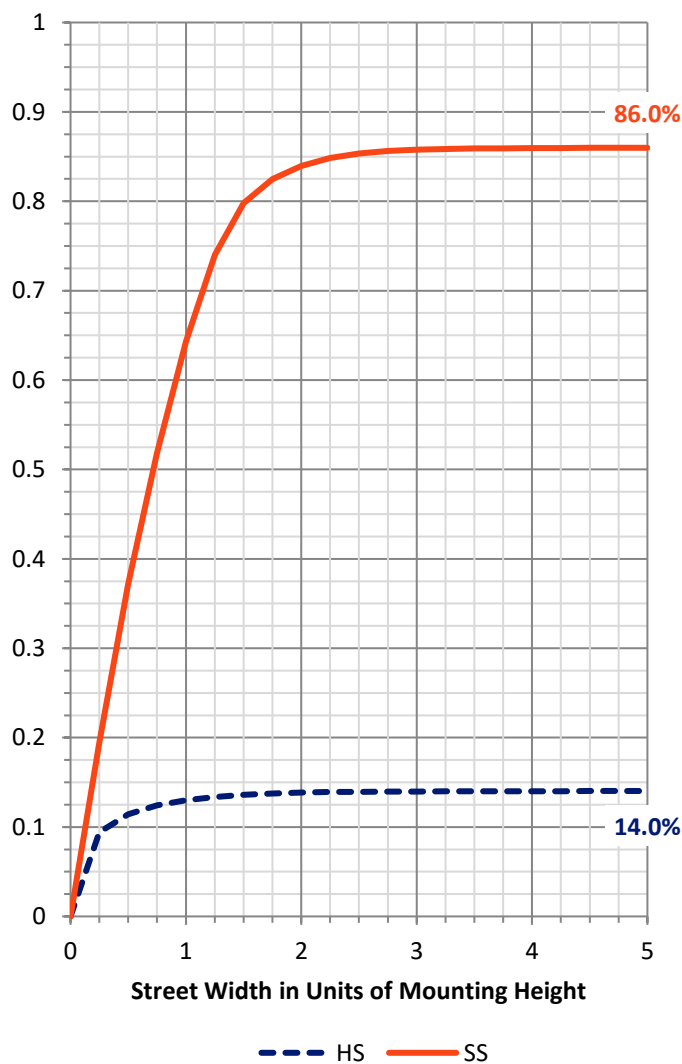
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2139.0	0.0	2139.0
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	12997.0	0.0	12997.0
	% Fixture	85.9	0.0	85.9
Total	Lumens	15136.0	0.0	15136.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	558.0	3.7
10°-20°	1191.2	7.9
20°-30°	1578.6	10.4
30°-40°	2294.2	15.2
40°-50°	3402.0	22.5
50°-60°	4254.0	28.1
60°-70°	1678.0	11.1
70°-80°	167.1	1.1
80°-90°	13.0	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°	15136.0	100.0
0°-180°	15136.0	100.0

Coefficient of Utilization



REPORT NUMBER: P530417

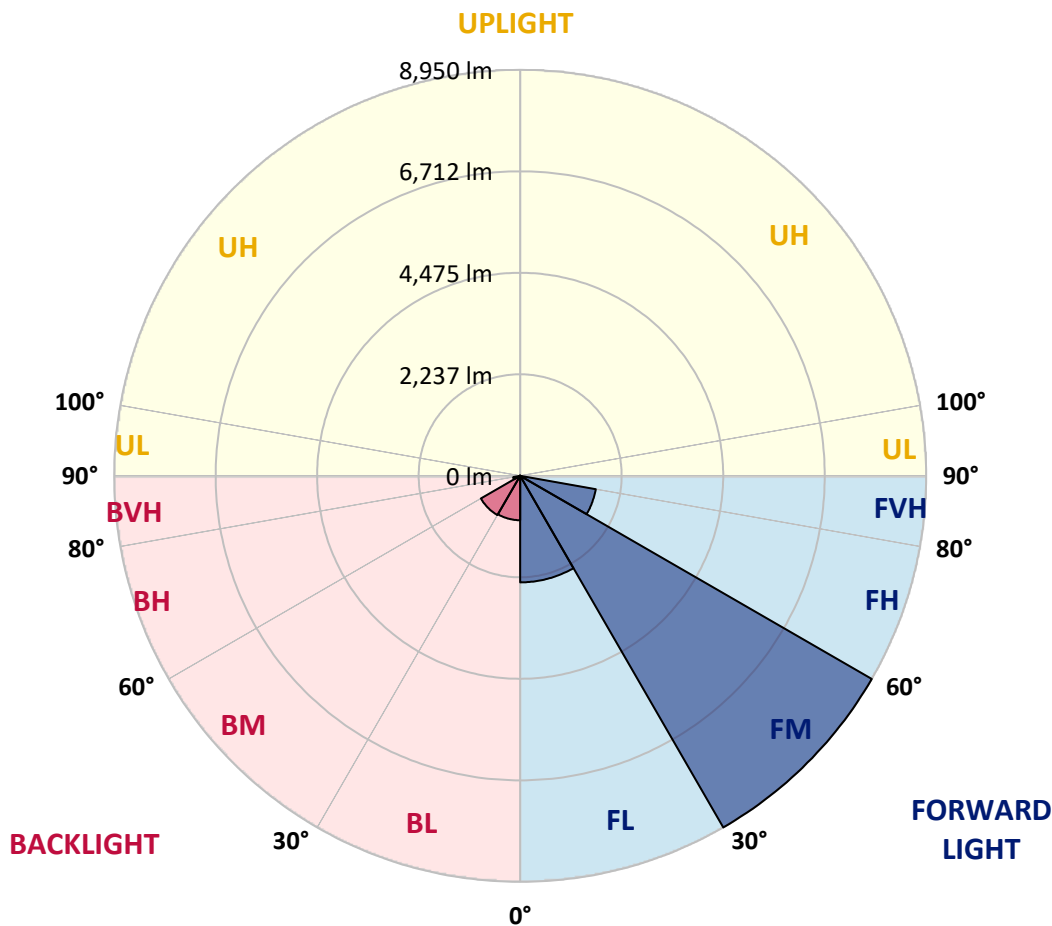
CATALOG NUMBER: GALN-SA5C-827-U-SL3-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2349.5	15.5			
FM (30°-60°)	8949.9	59.1			
FH (60°-80°)	1691.7	11.2			G1/1800
FVH (80°-90°)	5.9	0.0			G0/10
BL (0°-30°)	978.3	6.5	B2/1000		
BM (30°-60°)	1000.2	6.6	B2/2500		
BH (60°-80°)	153.4	1.0	B1/500		G1/500
BVH (80°-90°)	7.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





REPORT NUMBER: P530417

CATALOG NUMBER: GALN-SA5C-827-U-SL3-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6667.6	6667.6	6667.6	6667.6	6667.6	6667.6	6667.6	6667.6	6667.6	6667.6	6667.6
2.5°	7056.0	6982.8	6988.5	6963.1	6929.4	6954.7	6844.9	6870.3	6867.4	6718.3	6619.8
5°	6878.7	6957.5	6875.9	6943.4	6878.7	6949.1	6881.5	6830.9	6749.2	6639.5	6456.5
7.5°	6577.5	6501.6	6524.1	6608.5	6622.6	6780.2	6695.8	6760.5	6726.7	6510.0	6259.5
10°	5972.4	5955.5	6068.1	6180.7	6318.6	6487.5	6552.2	6515.6	6490.3	6408.7	6073.7
12.5°	5508.0	5555.9	5553.1	5738.8	5972.4	6068.1	6237.0	6231.4	6372.1	6220.1	5899.2
15°	5066.1	5091.5	5209.7	5325.1	5584.0	5857.0	6065.3	6093.4	6262.3	6155.4	5764.1
17.5°	4796.0	4759.4	4852.2	4990.2	5254.7	5612.2	5843.0	5910.5	6141.3	6118.8	5609.4
20°	4528.6	4528.6	4604.6	4767.8	5009.9	5412.3	5823.3	5803.6	6141.3	6076.6	5443.3
22.5°	4438.5	4483.5	4503.2	4627.1	4914.2	5260.3	5738.8	5775.4	6189.1	6056.9	5370.1
25°	4562.3	4503.2	4508.9	4607.4	4877.6	5187.2	5676.9	5758.5	6276.4	6155.4	5311.0
27.5°	4582.0	4641.2	4658.0	4725.6	4905.7	5209.7	5831.7	5997.8	6493.1	6386.2	5327.9
30°	4753.7	4812.8	4810.0	4925.4	5049.3	5392.6	6177.9	6211.7	6940.6	6676.1	5432.0
32.5°	4962.0	5023.9	5043.6	5178.7	5277.2	5727.6	6600.1	6687.3	7371.2	7132.0	5705.0
35°	5220.9	5198.4	5288.5	5423.6	5634.7	6217.3	7115.1	7261.5	7835.6	7723.1	5986.5
37.5°	5544.6	5516.5	5603.7	5823.3	6110.3	6797.1	7590.8	7686.5	8173.4	8271.9	6507.2
40°	5772.6	5783.9	6048.4	6343.9	6647.9	7348.7	7891.9	7984.8	8409.8	8784.1	6901.2
42.5°	6152.6	6222.9	6541.0	6901.2	7219.3	7762.5	8136.8	8226.9	8519.6	9195.1	7433.2
45°	6704.2	6673.2	7025.1	7427.5	7779.3	8193.1	8426.7	8395.7	8584.3	9603.2	7768.1
47.5°	7413.5	7419.1	7652.7	7996.1	8362.0	8567.4	8750.4	8640.6	8719.4	10033.8	8215.6
50°	7897.6	7939.8	8128.4	8480.2	8663.1	8978.3	9211.9	9144.4	9119.1	10292.7	8497.1
52.5°	8021.4	8148.1	8249.4	8688.4	9116.2	9614.4	9912.8	10056.3	9606.0	10380.0	8854.5
55°	7087.0	7199.6	7557.0	8159.3	9287.9	10622.0	11032.9	11035.8	10242.1	10768.4	9105.0
57.5°	5665.6	5437.7	5657.2	6296.1	7852.5	10579.8	11579.0	11446.7	10560.1	10540.4	8888.3
60°	3917.8	3861.5	3875.6	4128.9	5434.8	8415.4	10318.1	10489.7	9724.2	9136.0	7036.3
62.5°	3104.4	3056.6	2994.7	2966.5	3374.6	5243.5	7278.4	7520.4	6799.9	5924.6	4171.1
65°	2431.8	2403.6	2412.0	2524.6	2521.8	2975.0	3979.7	3881.2	3107.2	2296.7	1311.6
67.5°	1640.9	1683.1	1716.9	2057.4	2231.9	2071.5	1922.3	1866.0	1010.4	425.0	289.9
70°	923.2	928.8	965.4	1286.2	1694.3	1607.1	1325.6	1325.6	503.8	154.8	166.1
72.5°	503.8	486.9	453.1	554.5	754.3	765.6	591.1	515.1	149.2	101.3	92.9
75°	244.9	242.0	208.3	171.7	163.2	135.1	104.1	95.7	67.5	64.7	56.3
77.5°	50.7	47.8	25.3	25.3	28.1	31.0	39.4	39.4	47.8	47.8	39.4
80°	0.0	0.0	2.8	11.3	19.7	28.1	33.8	33.8	39.4	39.4	31.0
82.5°	0.0	0.0	2.8	8.4	16.9	25.3	31.0	33.8	39.4	42.2	33.8
85°	0.0	0.0	0.0	5.6	14.1	19.7	16.9	16.9	14.1	11.3	5.6
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



REPORT NUMBER: P530417

CATALOG NUMBER: GALN-SA5C-827-U-SL3-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6667.6	6667.6	6667.6	6667.6	6667.6	6667.6	6667.6	6667.6	6667.6	6667.6	6667.6
2.5°	6569.1	6563.5	6434.0	6360.8	6228.5	6113.2	6020.3	5952.7	5952.7	5910.5	5871.1
5°	6383.3	6335.5	6059.7	5882.4	5631.9	5446.1	5319.5	5220.9	5066.1	5108.4	4942.3
7.5°	6152.6	6031.5	5665.6	5395.4	5049.3	4784.7	4514.5	4275.3	4044.5	3940.3	3996.6
10°	5904.9	5693.8	5201.2	4773.4	4342.8	3858.7	3543.5	3160.7	2924.3	2910.2	2848.3
12.5°	5643.1	5403.9	4804.4	4213.3	3647.6	3065.0	2583.7	2226.3	2065.9	1888.5	1922.3
15°	5446.1	5091.5	4362.5	3650.4	2899.0	2310.7	1826.6	1550.8	1398.8	1356.6	1342.5
17.5°	5232.2	4852.2	3912.2	3050.9	2274.1	1663.4	1314.4	1182.1	1123.0	1123.0	1114.6
20°	5009.9	4582.0	3464.7	2493.7	1705.6	1241.2	1052.6	1010.4	1007.6	1004.8	1004.8
22.5°	4863.5	4272.5	3059.4	1981.4	1286.2	993.5	914.7	897.8	909.1	942.9	942.9
25°	4708.7	3974.1	2611.9	1528.3	996.3	852.8	807.8	819.0	847.2	878.1	866.9
27.5°	4551.1	3779.9	2189.7	1199.0	816.2	745.8	729.0	754.3	785.3	813.4	805.0
30°	4514.5	3571.6	1790.0	909.1	700.8	650.2	661.4	683.9	714.9	726.1	737.4
32.5°	4570.8	3408.4	1466.4	745.8	610.8	596.7	596.7	607.9	627.6	653.0	644.5
35°	4731.2	3315.5	1159.6	647.3	560.1	546.0	543.2	554.5	565.7	574.2	565.7
37.5°	4976.1	3242.3	948.5	574.2	526.3	503.8	498.2	495.4	506.6	509.4	515.1
40°	5288.5	3281.7	805.0	529.1	492.5	467.2	450.3	450.3	450.3	458.8	461.6
42.5°	5626.2	3335.2	695.2	503.8	461.6	430.6	413.7	408.1	413.7	425.0	422.2
45°	5980.9	3439.4	624.8	464.4	433.4	394.0	371.5	365.9	380.0	402.5	399.7
47.5°	6313.0	3588.5	571.3	439.1	405.3	368.7	340.6	334.9	360.3	391.2	394.0
50°	6645.1	3847.5	551.6	419.4	385.6	343.4	318.0	312.4	340.6	380.0	388.4
52.5°	7027.9	4126.1	537.6	394.0	363.1	323.7	295.5	289.9	320.9	371.5	374.3
55°	7278.4	4362.5	526.3	349.0	320.9	292.7	270.2	267.4	301.2	346.2	357.4
57.5°	6985.7	4033.2	486.9	304.0	273.0	258.9	239.2	239.2	267.4	309.6	318.0
60°	5296.9	2654.1	346.2	244.9	230.8	222.3	213.9	213.9	236.4	267.4	270.2
62.5°	3101.6	1429.8	222.3	197.0	197.0	188.6	174.5	174.5	197.0	213.9	216.7
65°	920.3	458.8	180.1	168.9	166.1	152.0	137.9	135.1	152.0	160.4	157.6
67.5°	264.6	211.1	149.2	140.7	137.9	115.4	107.0	104.1	107.0	101.3	98.5
70°	157.6	143.5	115.4	118.2	104.1	84.4	76.0	73.2	67.5	59.1	53.5
72.5°	87.3	87.3	84.4	90.1	73.2	56.3	47.8	39.4	31.0	25.3	22.5
75°	53.5	56.3	59.1	61.9	47.8	36.6	31.0	19.7	11.3	5.6	5.6
77.5°	36.6	39.4	42.2	45.0	39.4	33.8	25.3	14.1	2.8	0.0	0.0
80°	28.1	31.0	36.6	39.4	42.2	45.0	33.8	14.1	2.8	0.0	0.0
82.5°	31.0	33.8	42.2	39.4	39.4	39.4	31.0	14.1	2.8	0.0	0.0
85°	5.6	8.4	14.1	14.1	19.7	25.3	19.7	5.6	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)