

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: P646939

Luminaire Tested: **GALN-SA5C-835-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646939
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-SA5C-835-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1050mA 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: 16090.7 lumens
Efficiency: N/A
Efficacy: 59.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

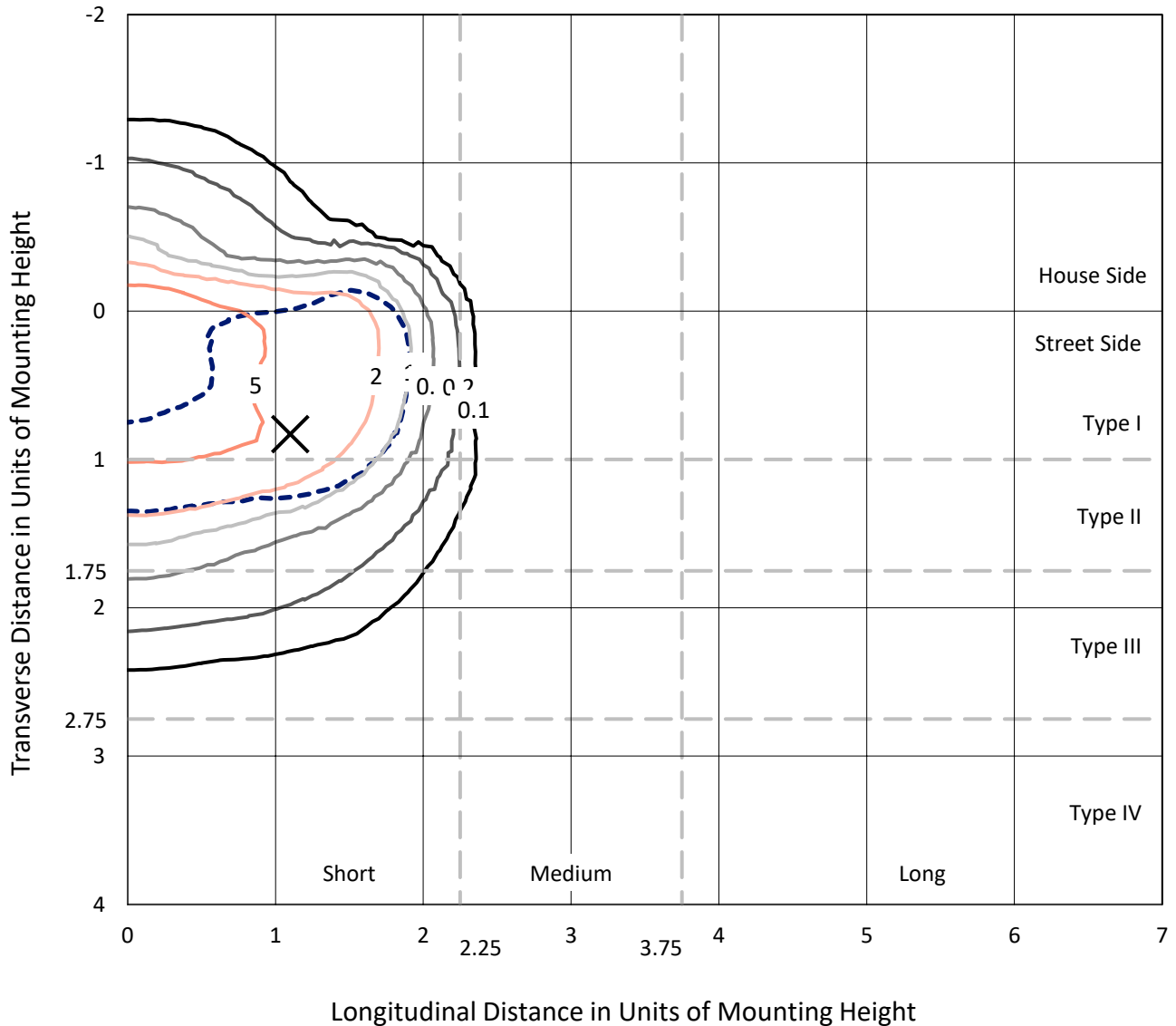
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P646939
 CATALOG NUMBER: GALN-SA5C-835-U-SL2-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

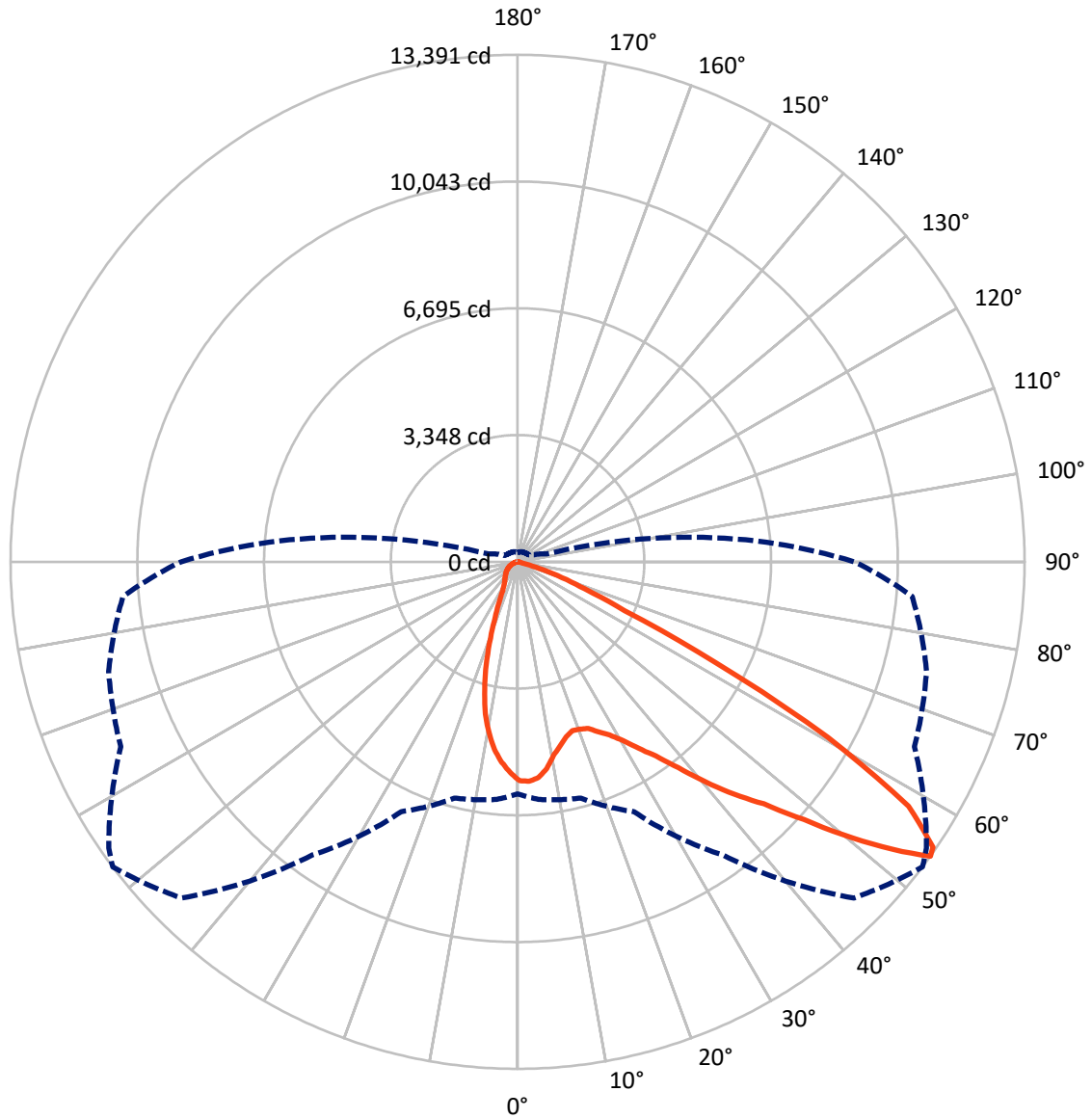
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Short - N/A

REPORT NUMBER: P646939
CATALOG NUMBER: GALN-SA5C-835-U-SL2-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P646939
 CATALOG NUMBER: GALN-SA5C-835-U-SL2-GRSBK

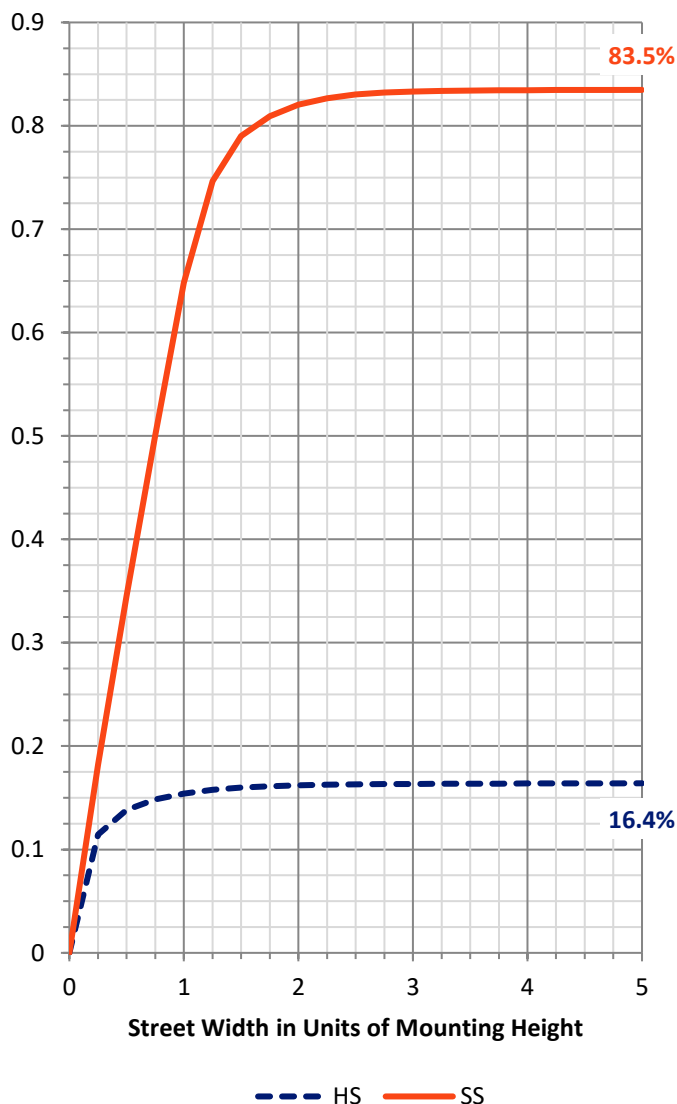
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2662.3	0.0	2662.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	13428.4	0.0	13428.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	16090.7	0.0	16090.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	495.9	3.1
10°-20°	1136.9	7.1
20°-30°	1615.7	10.0
30°-40°	2493.5	15.5
40°-50°	3909.6	24.3
50°-60°	4541.5	28.2
60°-70°	1716.1	10.7
70°-80°	163.2	1.0
80°-90°	18.4	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°	16090.7	100.0
0°-180°	16090.7	100.0

Coefficient of Utilization



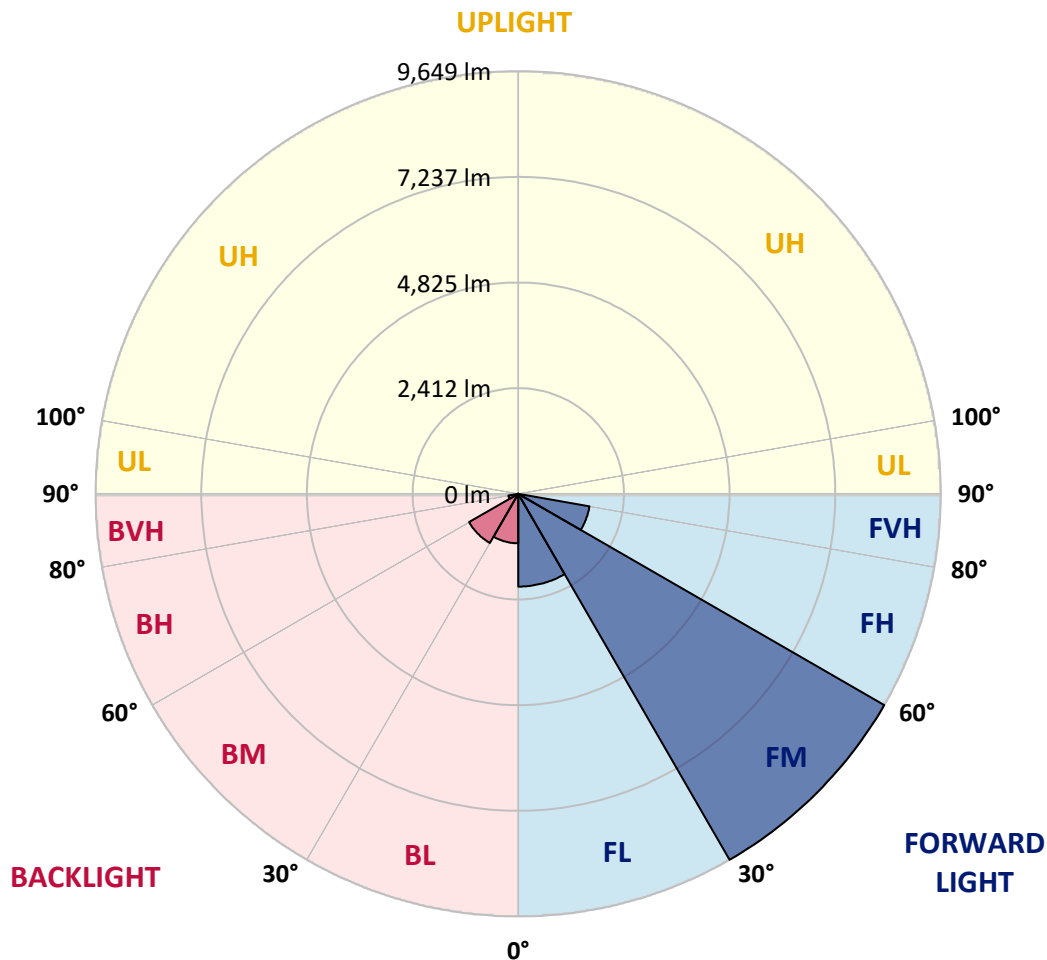
REPORT NUMBER: P646939
 CATALOG NUMBER: GALN-SA5C-835-U-SL2-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2118.7	13.2			
FM (30°-60°)	9649.1	60.0			
FH (60°-80°)	1651.2	10.3			G1/1800
FVH (80°-90°)	9.5	0.1			G0/10
BL (0°-30°)	1129.7	7.0	B3/2500		
BM (30°-60°)	1295.5	8.1	B2/2500		
BH (60°-80°)	228.1	1.4	B1/500		G1/500
BVH (80°-90°)	8.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





REPORT NUMBER: P646939

CATALOG NUMBER: GALN-SA5C-835-U-SL2-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	5779.5	5779.5	5779.5	5779.5	5779.5	5779.5	5779.5	5779.5	5779.5	5779.5	5779.5
2.5°	5749.5	5698.5	5749.5	5755.5	5791.5	5824.4	5803.4	5851.4	5824.4	5794.5	5785.5
5°	5284.9	5353.8	5356.8	5464.7	5440.8	5638.6	5725.5	5701.6	5848.5	5839.5	5818.5
7.5°	4868.2	4841.2	4877.2	5003.1	5162.0	5389.8	5515.7	5512.7	5722.6	5872.4	5857.5
10°	4481.5	4478.5	4553.5	4652.4	4787.3	5027.1	5200.9	5287.9	5614.6	5842.4	5875.4
12.5°	4220.7	4208.7	4289.7	4370.6	4583.4	4769.3	4991.1	5033.0	5407.8	5737.5	5791.5
15°	4049.8	4076.8	4082.8	4238.7	4373.6	4619.4	4793.3	4880.2	5311.9	5653.6	5860.4
17.5°	4019.8	4055.9	4058.8	4187.7	4331.6	4538.4	4691.3	4808.2	5230.9	5695.5	5863.4
20°	4079.8	4058.8	4076.8	4157.7	4298.7	4496.5	4718.3	4757.3	5204.0	5716.5	5896.4
22.5°	4250.7	4244.7	4199.7	4265.7	4364.6	4571.5	4781.2	4841.2	5281.9	5824.4	5923.4
25°	4439.5	4472.5	4430.5	4421.5	4490.5	4694.3	4973.1	5051.1	5542.7	6019.3	6007.3
27.5°	4793.3	4760.2	4760.2	4718.3	4700.3	4799.2	5179.9	5308.8	5833.4	6271.1	6103.3
30°	5132.0	5168.0	5141.0	5156.0	5036.1	5027.1	5473.7	5632.6	6349.0	6654.8	6307.1
32.5°	5668.6	5620.6	5665.6	5626.6	5467.8	5305.8	5872.4	6037.3	6972.5	7095.5	6612.8
35°	6115.2	6094.2	6286.1	6280.1	6022.3	5863.4	6295.1	6540.9	7407.3	7623.1	6972.5
37.5°	6750.7	6711.8	6930.6	7035.5	6804.7	6567.9	6900.6	7185.4	7811.9	8045.7	7341.3
40°	7404.2	7503.2	7796.9	7970.8	7725.0	7410.2	7641.1	7728.0	8081.7	8321.5	7593.1
42.5°	8231.6	8375.4	8675.2	8825.1	8804.1	8462.4	8393.4	8390.5	8276.5	8243.6	7778.9
45°	9026.0	8972.0	9433.7	9760.4	10024.2	9925.2	9118.9	9028.9	8585.3	8360.5	7826.9
47.5°	9373.7	9355.7	9670.4	10252.0	11151.3	11274.2	10174.1	9826.3	9106.9	8852.1	8087.7
50°	8924.0	9016.9	9328.7	9973.2	11352.2	12290.4	11469.1	11001.4	9715.4	9451.6	8705.2
52.5°	7455.2	7518.1	7814.9	8633.3	10668.7	12890.0	12710.0	12440.3	10833.5	10395.9	9781.4
54°	6130.2	6298.1	6460.0	7281.4	9451.6	12557.2	13390.6	13183.7	11562.0	11181.2	10458.8
55°	5338.8	5437.8	5554.7	6373.0	8609.3	11993.6	13312.6	13330.6	12050.6	11427.1	10914.5
57.5°	3900.0	3968.9	3849.0	4211.7	5911.4	9739.4	12176.5	12662.1	12710.0	11795.8	11193.3
60°	2979.7	3009.6	2874.8	2931.7	3675.2	6684.8	9418.6	10003.2	11466.0	10309.0	9481.6
62.5°	2311.2	2317.2	2314.2	2413.1	2533.0	3932.9	5890.4	6409.0	7904.9	7320.3	6439.0
65°	1702.6	1675.7	1723.6	2023.4	2161.3	2473.1	3102.6	3480.3	4295.6	3627.2	2593.0
67.5°	1103.2	1112.1	1160.1	1504.8	1852.6	1897.5	1909.5	1879.5	1882.6	1037.2	650.5
70°	662.5	677.5	662.5	851.4	1325.0	1360.9	1244.0	1214.0	947.3	245.8	242.8
72.5°	392.7	371.7	332.8	365.7	551.5	659.5	593.5	590.5	371.7	143.9	143.9
75°	164.9	149.9	122.9	111.0	146.9	140.9	140.9	125.9	98.9	95.9	90.0
77.5°	33.0	33.0	24.0	27.0	35.9	42.0	51.0	51.0	60.0	60.0	56.9
80°	0.0	3.0	9.0	18.0	27.0	39.0	44.9	44.9	51.0	51.0	42.0
82.5°	0.0	3.0	9.0	18.0	24.0	35.9	44.9	44.9	51.0	53.9	44.9
85°	0.0	3.0	9.0	15.0	24.0	30.0	30.0	27.0	21.0	18.0	12.0
87.5°	0.0	0.0	3.0	6.0	3.0	6.0	6.0	6.0	6.0	6.0	6.0
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: P646939

CATALOG NUMBER: GALN-SA5C-835-U-SL2-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5779.5	5779.5	5779.5	5779.5	5779.5	5779.5	5779.5	5779.5	5779.5	5779.5	5779.5
2.5°	5806.5	5803.4	5731.6	5614.6	5587.6	5488.8	5476.7	5416.8	5449.8	5338.8	5326.8
5°	5758.5	5722.6	5635.6	5560.6	5341.9	5186.0	5063.0	4913.2	4826.3	4841.2	4784.3
7.5°	5827.5	5734.5	5581.6	5320.9	5054.0	4781.2	4634.4	4328.7	4217.7	4052.8	4028.8
10°	5755.5	5686.5	5449.8	5018.1	4649.4	4256.7	3911.9	3573.2	3315.4	3204.5	3180.5
12.5°	5749.5	5629.6	5233.9	4754.3	4220.7	3657.2	3156.5	2733.8	2479.1	2335.1	2302.2
15°	5656.5	5512.7	4991.1	4346.6	3609.2	2907.7	2362.2	1954.4	1759.6	1675.7	1699.7
17.5°	5665.6	5449.8	4748.3	3914.9	3006.6	2134.3	1612.7	1402.9	1351.9	1372.9	1372.9
20°	5656.5	5308.8	4454.5	3417.3	2302.2	1480.8	1184.1	1109.1	1142.1	1208.1	1193.1
22.5°	5608.6	5242.9	4184.7	2892.7	1693.7	1097.1	950.2	953.2	1004.2	1085.2	1103.2
25°	5644.6	5096.0	3843.0	2362.2	1235.0	875.3	824.3	845.3	899.3	959.3	971.2
27.5°	5617.6	4991.1	3486.3	1834.6	902.3	752.4	749.4	773.4	797.4	842.4	842.4
30°	5647.6	4895.2	3135.5	1363.9	743.5	689.4	677.5	695.5	719.4	728.4	725.4
32.5°	5758.5	4823.2	2730.9	1019.2	656.5	629.5	629.5	629.5	626.5	638.5	641.5
35°	6001.3	4835.3	2374.1	788.4	599.5	578.6	569.6	557.6	551.5	557.6	560.5
37.5°	6265.1	4829.2	2005.4	671.5	557.6	539.6	518.6	500.6	497.6	503.6	494.6
40°	6382.0	4886.2	1663.7	602.5	518.6	497.6	464.6	449.7	452.7	458.6	452.7
42.5°	6540.9	4904.2	1441.9	548.6	482.6	449.7	428.7	410.7	407.7	416.7	413.7
45°	6537.9	4802.2	1208.1	518.6	449.7	413.7	386.7	371.7	371.7	377.7	380.7
47.5°	6729.7	4787.3	1037.2	491.6	425.6	389.7	356.7	344.8	341.7	341.7	335.8
50°	7176.4	4997.1	905.3	461.7	395.7	362.7	335.8	320.7	308.7	302.8	299.7
52.5°	8048.7	5650.6	803.4	425.6	362.7	335.8	311.8	299.7	284.8	269.8	266.8
54°	8894.1	6325.1	797.4	395.7	335.8	317.7	296.8	290.8	272.8	251.8	245.8
55°	9274.8	6717.7	818.4	371.7	317.7	305.8	287.8	281.8	263.8	239.8	236.8
57.5°	9589.5	6870.7	806.3	308.7	287.8	284.8	269.8	260.8	239.8	206.9	200.8
60°	7719.0	5195.0	578.6	272.8	263.8	257.8	245.8	239.8	212.8	176.9	173.8
62.5°	4877.2	2988.6	368.7	239.8	230.8	221.8	206.9	200.8	176.9	140.9	131.9
65°	2077.4	1238.0	248.8	212.8	197.9	182.8	170.9	161.8	140.9	104.9	101.9
67.5°	539.6	440.7	206.9	185.9	164.9	143.9	134.9	119.9	95.9	72.0	69.0
70°	242.8	221.8	173.8	155.9	131.9	111.0	98.9	83.9	63.0	48.0	44.9
72.5°	143.9	140.9	131.9	116.9	98.9	83.9	72.0	56.9	42.0	27.0	27.0
75°	90.0	86.9	90.0	81.0	69.0	63.0	53.9	39.0	24.0	12.0	12.0
77.5°	53.9	53.9	53.9	51.0	48.0	48.0	39.0	24.0	12.0	3.0	3.0
80°	42.0	42.0	44.9	42.0	42.0	42.0	33.0	18.0	6.0	0.0	0.0
82.5°	42.0	44.9	51.0	48.0	42.0	35.9	30.0	18.0	6.0	0.0	0.0
85°	12.0	9.0	15.0	21.0	30.0	27.0	21.0	15.0	6.0	0.0	0.0
87.5°	6.0	6.0	6.0	6.0	3.0	3.0	3.0	3.0	3.0	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)