

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: P648589

Luminaire Tested: **GALN-SA8B-835-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648589
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-SA8B-835-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 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: 21000.1 lumens
Efficiency: N/A
Efficacy: 64.6 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

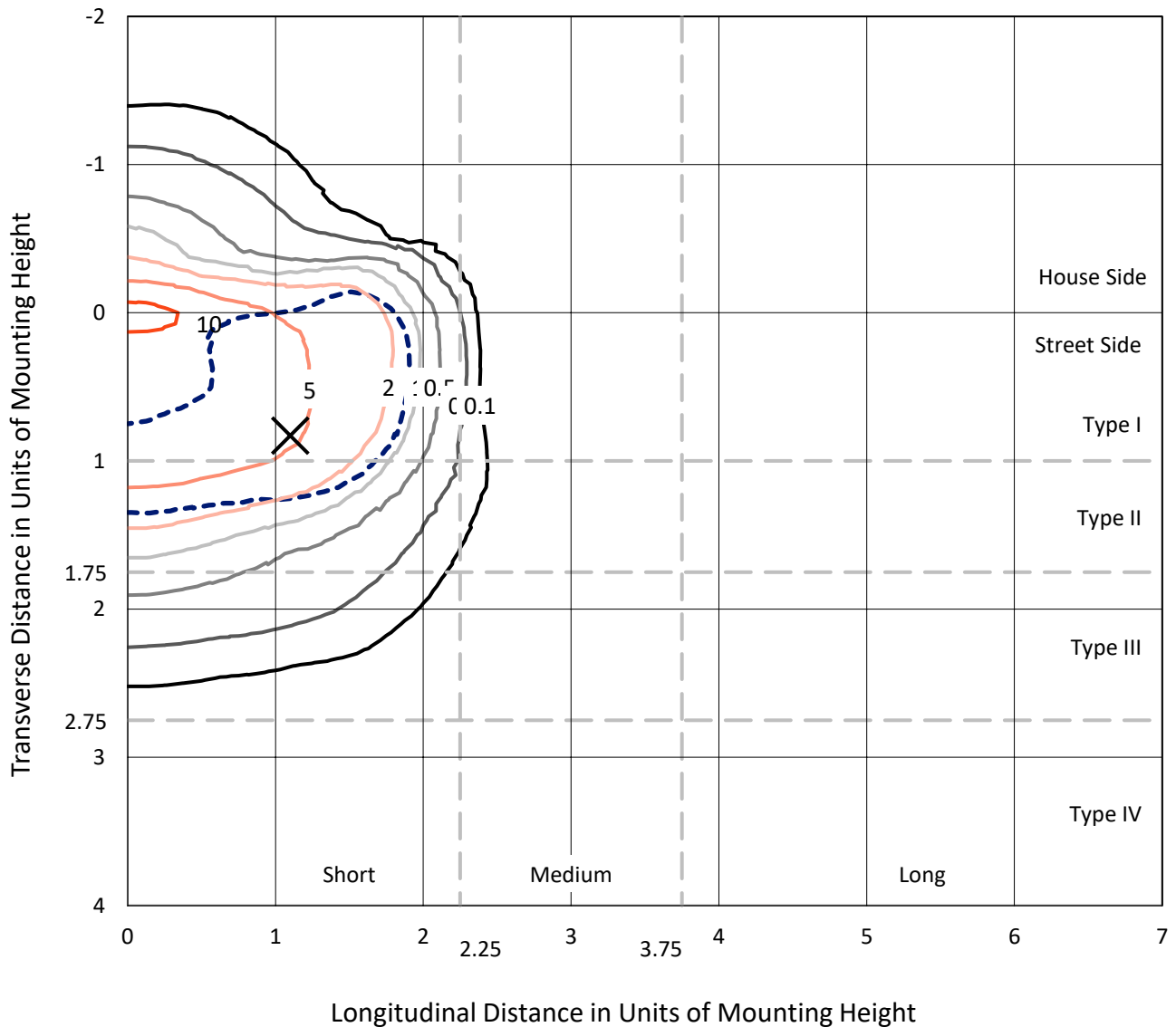
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P648589
 CATALOG NUMBER: GALN-SA8B-835-U-SL2-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

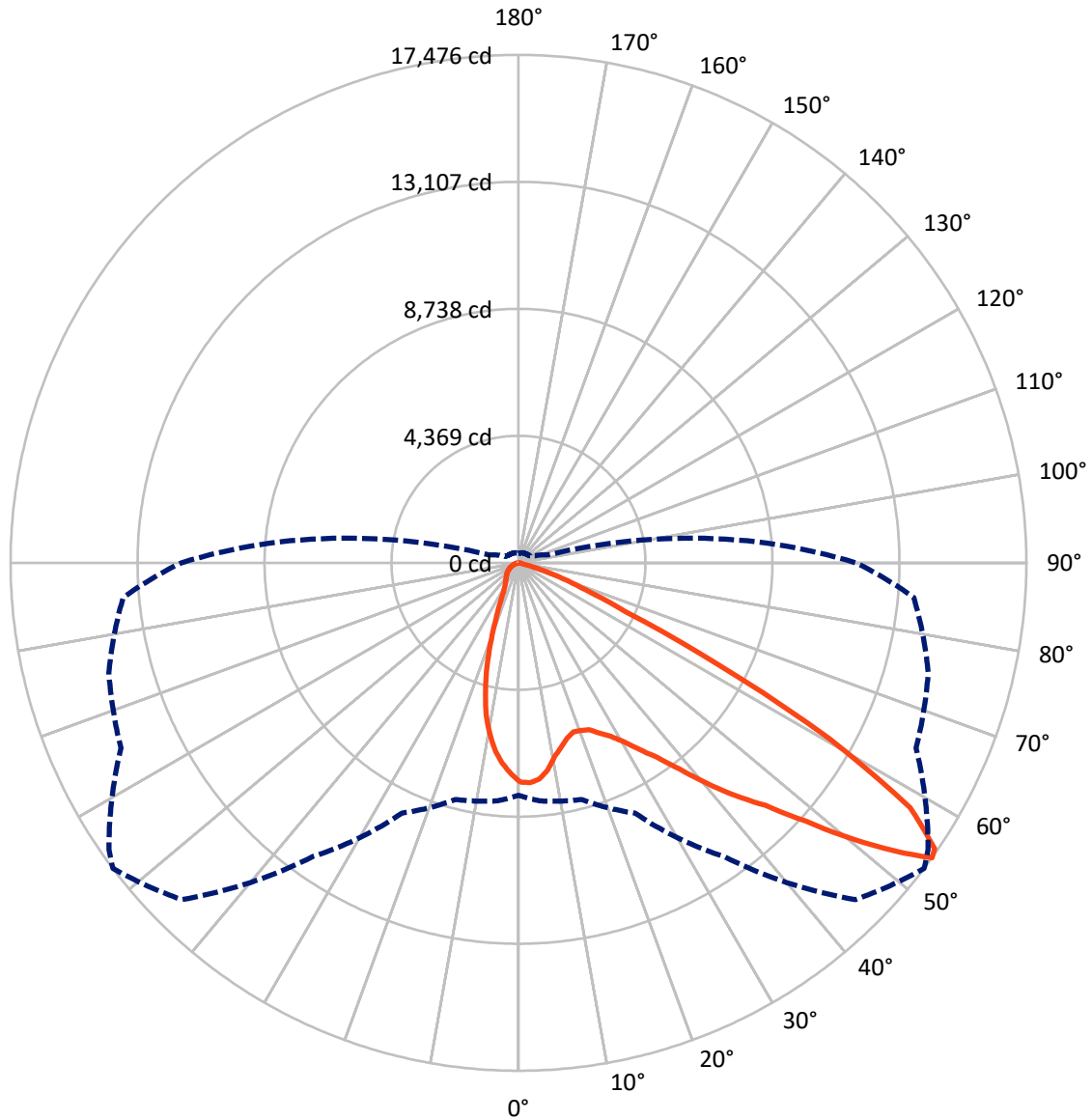
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P648589
CATALOG NUMBER: GALN-SA8B-835-U-SL2-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P648589
 CATALOG NUMBER: GALN-SA8B-835-U-SL2-GRSBK

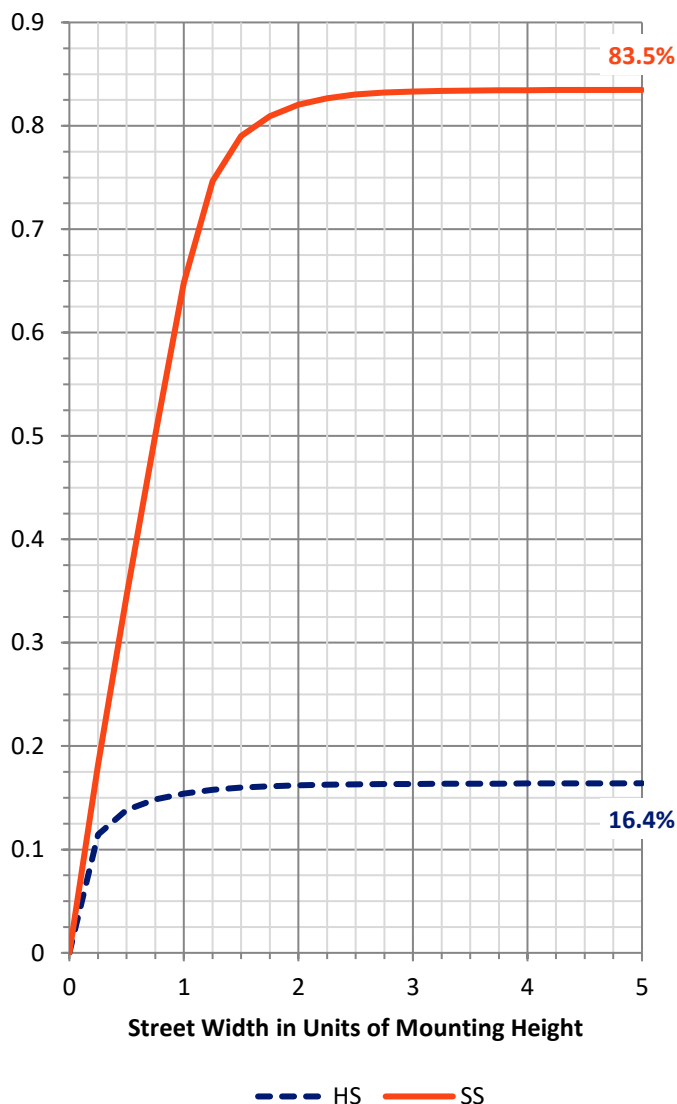
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3474.5	0.0	3474.5
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	17525.5	0.0	17525.5
	% Fixture	83.5	0.0	83.5
Total	Lumens	21000.1	0.0	21000.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	647.2	3.1
10°-20°	1483.7	7.1
20°-30°	2108.7	10.0
30°-40°	3254.3	15.5
40°-50°	5102.4	24.3
50°-60°	5927.2	28.2
60°-70°	2239.6	10.7
70°-80°	213.0	1.0
80°-90°	24.0	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°	21000.1	100.0
0°-180°	21000.1	100.0

Coefficient of Utilization

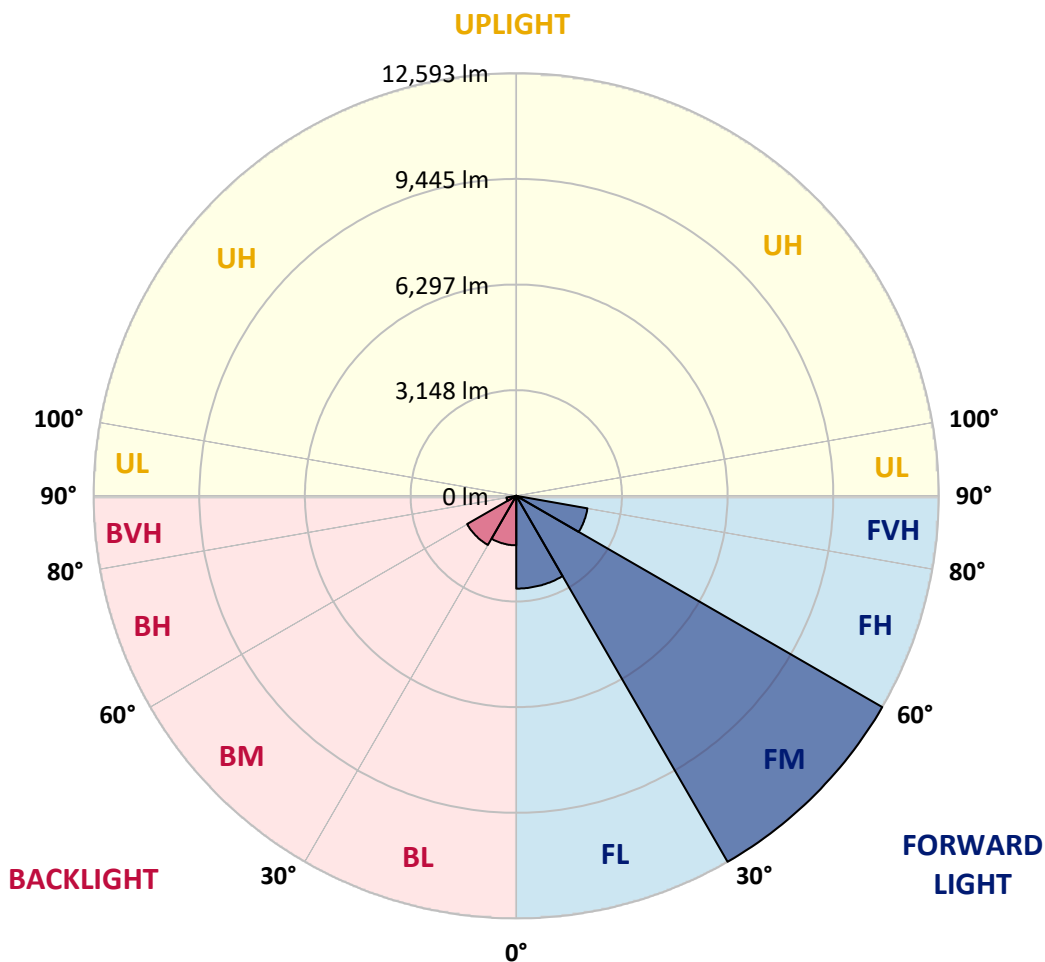


REPORT NUMBER: P648589
 CATALOG NUMBER: GALN-SA8B-835-U-SL2-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2765.2	13.2			
FM (30°-60°)	12593.1	60.0			
FH (60°-80°)	2154.9	10.3			G2/5000
FVH (80°-90°)	12.4	0.1			G1/100
BL (0°-30°)	1474.4	7.0	B3/2500		
BM (30°-60°)	1690.8	8.1	B2/2500		
BH (60°-80°)	297.7	1.4	B1/500		G1/500
BVH (80°-90°)	11.6	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





REPORT NUMBER: P648589

CATALOG NUMBER: GALN-SA8B-835-U-SL2-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	7542.9	7542.9	7542.9	7542.9	7542.9	7542.9	7542.9	7542.9	7542.9	7542.9	7542.9
2.5°	7503.7	7437.2	7503.7	7511.6	7558.5	7601.5	7574.2	7636.8	7601.5	7562.4	7550.7
5°	6897.4	6987.3	6991.3	7132.1	7100.8	7359.0	7472.5	7441.2	7632.8	7621.1	7593.7
7.5°	6353.5	6318.3	6365.2	6529.6	6736.9	7034.2	7198.6	7194.7	7468.6	7664.2	7644.6
10°	5848.9	5844.9	5942.7	6071.9	6247.9	6560.9	6787.8	6901.3	7327.7	7625.0	7668.1
12.5°	5508.5	5492.8	5598.4	5704.1	5981.9	6224.5	6513.9	6568.7	7057.7	7488.1	7558.5
15°	5285.5	5320.7	5328.5	5532.0	5708.0	6028.8	6255.7	6369.2	6932.5	7378.5	7648.5
17.5°	5246.3	5293.3	5297.2	5465.4	5653.3	5923.2	6122.7	6275.3	6826.9	7433.3	7652.4
20°	5324.6	5297.2	5320.7	5426.3	5610.2	5868.4	6157.9	6208.8	6791.7	7460.7	7695.5
22.5°	5547.6	5539.8	5481.1	5567.1	5696.2	5966.2	6240.1	6318.3	6893.5	7601.5	7730.6
25°	5794.0	5837.1	5782.4	5770.6	5860.6	6126.7	6490.4	6592.2	7233.8	7855.8	7840.2
27.5°	6255.7	6212.7	6212.7	6157.9	6134.4	6263.5	6760.4	6928.6	7613.3	8184.5	7965.4
30°	6697.8	6744.8	6709.5	6729.1	6572.7	6560.9	7143.8	7351.2	8286.2	8685.3	8231.4
32.5°	7398.1	7335.5	7394.2	7343.4	7136.0	6924.7	7664.2	7879.3	9099.9	9260.4	8630.5
35°	7981.0	7953.6	8204.0	8196.2	7859.8	7652.4	8215.8	8536.6	9667.2	9949.0	9099.9
37.5°	8810.5	8759.6	9045.2	9182.1	8880.9	8571.8	9006.1	9377.8	10195.4	10500.6	9581.2
40°	9663.3	9792.4	10175.9	10402.7	10081.9	9671.1	9972.4	10085.8	10547.5	10860.4	9909.8
42.5°	10743.1	10930.9	11322.1	11517.8	11490.4	11044.4	10954.4	10950.5	10801.8	10758.7	10152.4
45°	11779.8	11709.5	12312.0	12738.4	13082.7	12953.6	11901.1	11783.8	11204.7	10911.3	10214.9
47.5°	12233.7	12210.2	12621.0	13380.0	14553.7	14714.1	13278.3	12824.4	11885.5	11552.9	10555.3
50°	11646.8	11768.1	12175.0	13016.1	14815.8	16040.3	14968.4	14358.0	12679.7	12335.4	11361.3
52.5°	9729.8	9812.0	10199.3	11267.4	13923.8	16822.8	16588.0	16236.0	14138.9	13567.7	12765.7
54°	8000.6	8219.7	8431.0	9502.9	12335.4	16388.5	17476.2	17206.2	15089.7	14592.8	13650.0
55°	6967.8	7096.9	7249.5	8317.5	11236.1	15653.0	17374.4	17397.9	15727.3	14913.6	14244.6
57.5°	5089.9	5179.9	5023.3	5496.7	7715.0	12711.0	15891.7	16525.4	16588.0	15394.8	14608.4
60°	3888.8	3927.9	3751.9	3826.2	4796.4	8724.3	12292.4	13055.3	14964.5	13454.3	12374.5
62.5°	3016.4	3024.2	3020.3	3149.4	3305.9	5132.9	7687.7	8364.5	10316.7	9553.8	8403.5
65°	2222.2	2187.0	2249.6	2640.8	2820.8	3227.6	4049.2	4542.2	5606.3	4733.9	3384.1
67.5°	1439.7	1451.4	1514.1	1964.0	2417.7	2476.5	2492.1	2453.0	2456.9	1353.7	848.9
70°	864.6	884.2	864.6	1111.1	1729.3	1776.2	1623.6	1584.5	1236.3	320.8	316.9
72.5°	512.5	485.1	434.3	477.3	719.9	860.7	774.6	770.7	485.1	187.8	187.8
75°	215.2	195.6	160.4	144.8	191.7	183.8	183.8	164.4	129.1	125.2	117.4
77.5°	43.1	43.1	31.3	35.2	47.0	54.8	66.5	66.5	78.2	78.2	74.3
80°	0.0	3.9	11.7	23.5	35.2	50.9	58.6	58.6	66.5	66.5	54.8
82.5°	0.0	3.9	11.7	23.5	31.3	47.0	58.6	58.6	66.5	70.4	58.6
85°	0.0	3.9	11.7	19.6	31.3	39.2	39.2	35.2	27.4	23.5	15.7
87.5°	0.0	0.0	3.9	7.8	3.9	7.8	7.8	7.8	7.8	7.8	7.8
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: P648589

CATALOG NUMBER: GALN-SA8B-835-U-SL2-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7542.9	7542.9	7542.9	7542.9	7542.9	7542.9	7542.9	7542.9	7542.9	7542.9	7542.9
2.5°	7578.1	7574.2	7480.2	7327.7	7292.5	7163.4	7147.7	7069.5	7112.5	6967.8	6952.1
5°	7515.5	7468.6	7355.1	7257.2	6971.7	6768.3	6607.8	6412.2	6298.8	6318.3	6244.0
7.5°	7605.4	7484.1	7284.6	6944.3	6596.1	6240.1	6048.4	5649.3	5504.6	5289.4	5258.1
10°	7511.6	7421.6	7112.5	6549.2	6067.9	5555.5	5105.6	4663.5	4327.0	4182.2	4150.9
12.5°	7503.7	7347.3	6830.8	6204.9	5508.5	4773.0	4119.6	3568.0	3235.4	3047.7	3004.6
15°	7382.4	7194.7	6513.9	5672.8	4710.4	3794.9	3082.9	2550.8	2296.5	2187.0	2218.2
17.5°	7394.2	7112.5	6197.1	5109.5	3924.0	2785.5	2104.8	1831.0	1764.4	1791.8	1791.8
20°	7382.4	6928.6	5813.6	4460.0	3004.6	1932.7	1545.3	1447.5	1490.6	1576.6	1557.1
22.5°	7319.9	6842.6	5461.5	3775.3	2210.4	1431.9	1240.2	1244.1	1310.6	1416.2	1439.7
25°	7366.8	6650.9	5015.5	3082.9	1611.9	1142.4	1075.8	1103.2	1173.7	1251.9	1267.6
27.5°	7331.6	6513.9	4550.0	2394.3	1177.6	982.0	978.0	1009.4	1040.7	1099.3	1099.3
30°	7370.7	6388.7	4092.3	1780.1	970.2	899.8	884.2	907.7	939.0	950.7	946.8
32.5°	7515.5	6294.9	3564.1	1330.2	856.8	821.6	821.6	821.6	817.7	833.3	837.3
35°	7832.3	6310.5	3098.5	1028.9	782.5	755.0	743.3	727.7	719.9	727.7	731.6
37.5°	8176.6	6302.7	2617.3	876.3	727.7	704.2	676.8	653.3	649.4	657.3	645.5
40°	8329.2	6377.0	2171.3	786.4	676.8	649.4	606.4	586.9	590.8	598.6	590.8
42.5°	8536.6	6400.5	1881.8	716.0	629.8	586.9	559.5	536.0	532.0	543.8	539.9
45°	8532.7	6267.4	1576.6	676.8	586.9	539.9	504.7	485.1	485.1	493.0	496.9
47.5°	8783.1	6247.9	1353.7	641.6	555.5	508.6	465.6	449.9	446.0	446.0	438.2
50°	9366.0	6521.8	1181.5	602.5	516.4	473.4	438.2	418.6	402.9	395.1	391.3
52.5°	10504.5	7374.6	1048.5	555.5	473.4	438.2	406.8	391.3	371.7	352.1	348.2
54°	11607.7	8254.9	1040.7	516.4	438.2	414.7	387.4	379.5	356.0	328.6	320.8
55°	12104.6	8767.4	1068.1	485.1	414.7	399.0	375.6	367.8	344.3	313.0	309.1
57.5°	12515.4	8966.9	1052.4	402.9	375.6	371.7	352.1	340.4	313.0	270.0	262.1
60°	10074.1	6780.0	755.0	356.0	344.3	336.5	320.8	313.0	277.8	230.8	226.9
62.5°	6365.2	3900.5	481.2	313.0	301.2	289.5	270.0	262.1	230.8	183.8	172.1
65°	2711.2	1615.8	324.7	277.8	258.2	238.7	223.0	211.3	183.8	136.9	133.0
67.5°	704.2	575.1	270.0	242.6	215.2	187.8	176.0	156.5	125.2	93.9	90.0
70°	316.9	289.5	226.9	203.4	172.1	144.8	129.1	109.5	82.1	62.6	58.6
72.5°	187.8	183.8	172.1	152.6	129.1	109.5	93.9	74.3	54.8	35.2	35.2
75°	117.4	113.5	117.4	105.6	90.0	82.1	70.4	50.9	31.3	15.7	15.7
77.5°	70.4	70.4	70.4	66.5	62.6	62.6	50.9	31.3	15.7	3.9	3.9
80°	54.8	54.8	58.6	54.8	54.8	54.8	43.1	23.5	7.8	0.0	0.0
82.5°	54.8	58.6	66.5	62.6	54.8	47.0	39.2	23.5	7.8	0.0	0.0
85°	15.7	11.7	19.6	27.4	39.2	35.2	27.4	19.6	7.8	0.0	0.0
87.5°	7.8	7.8	7.8	7.8	3.9	3.9	3.9	3.9	3.9	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)