

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: P532287

Luminaire Tested: **GALN-SA7C-827-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532287
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-SA7C-827-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 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: 21011 lumens
Efficiency: N/A
Efficacy: 55.7 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

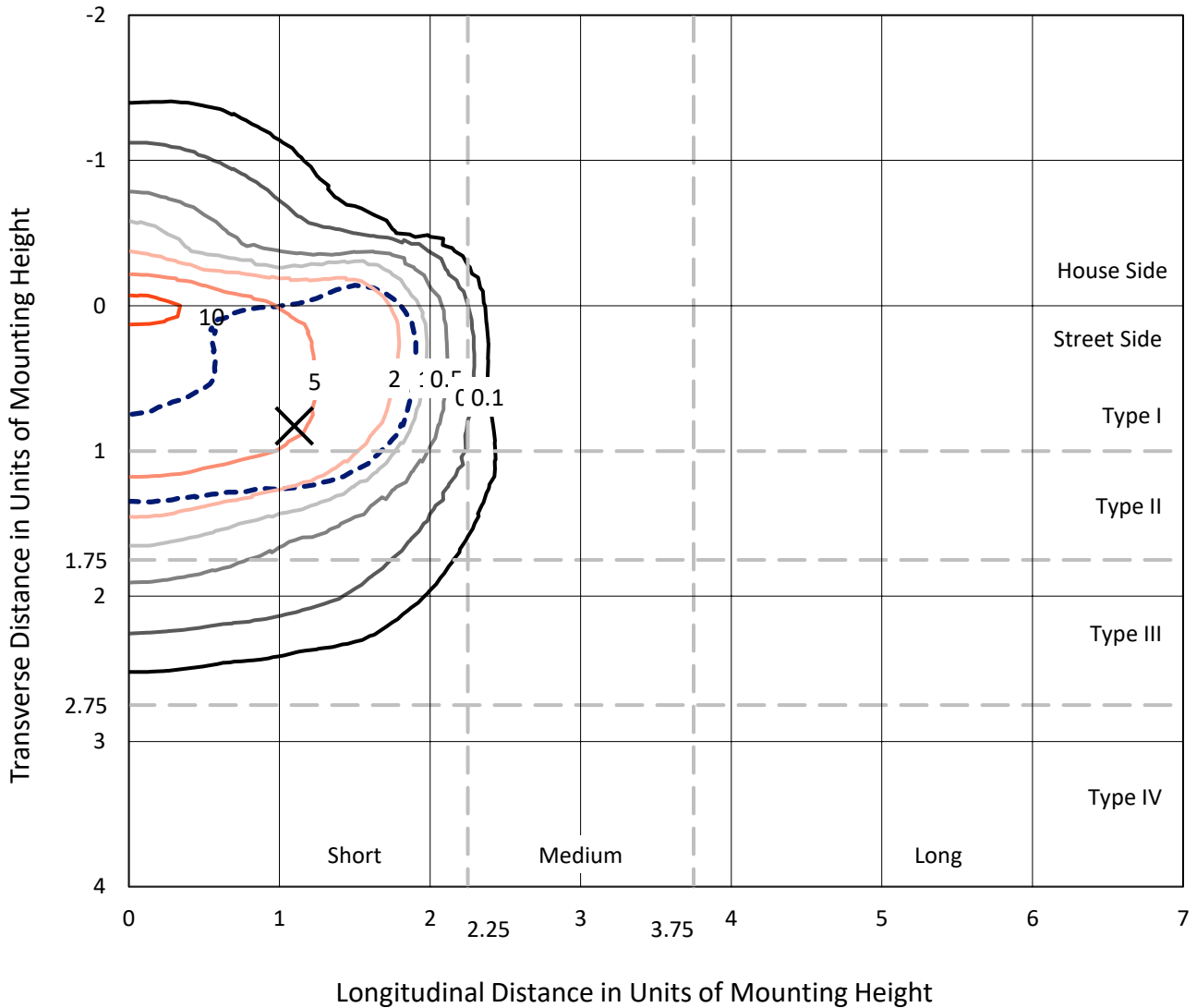
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P532287
 CATALOG NUMBER: GALN-SA7C-827-U-SL2-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

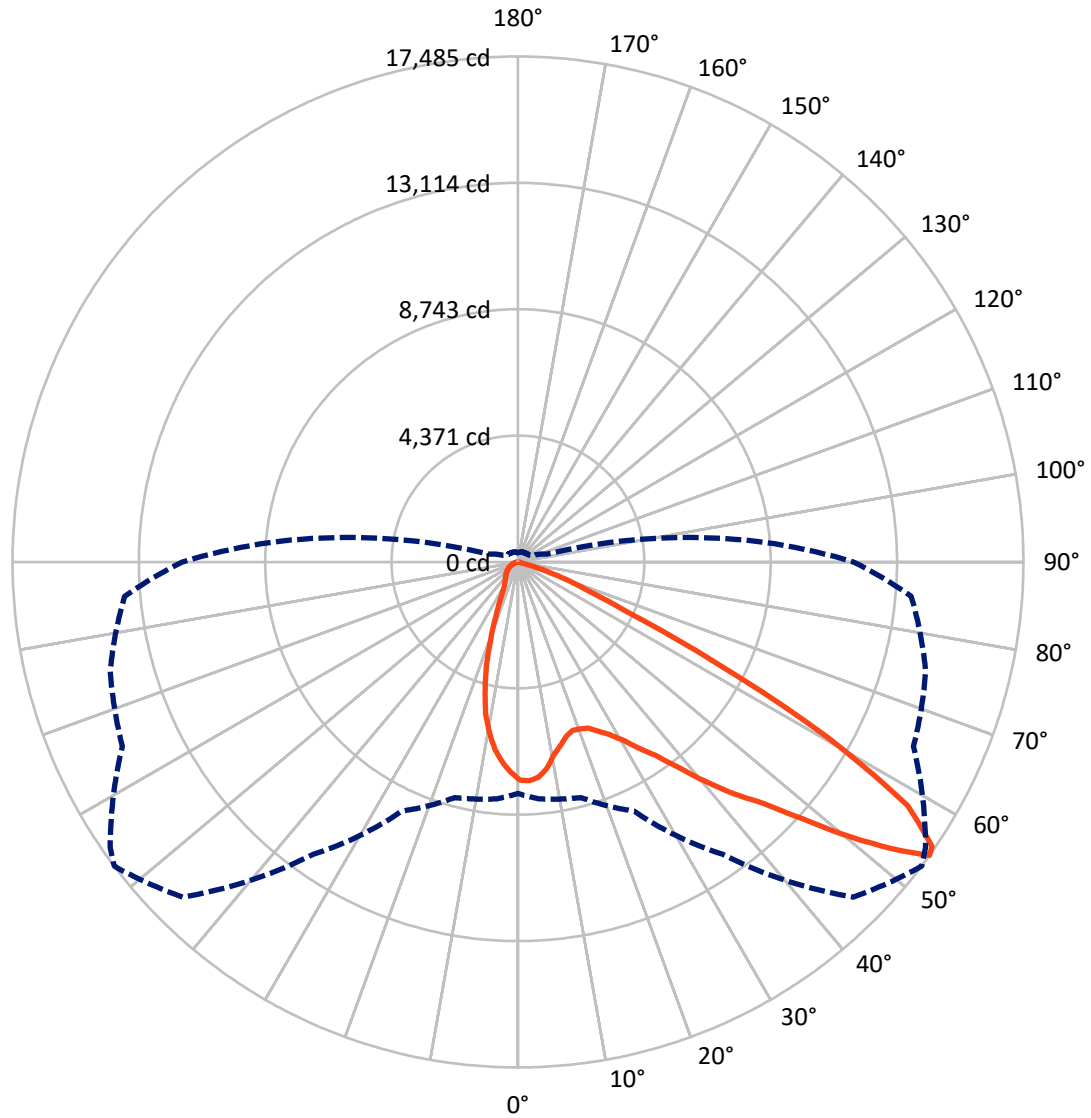
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P532287
CATALOG NUMBER: GALN-SA7C-827-U-SL2-GRSBK

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: GALN-SA7C-827-U-SL2-GRSBK

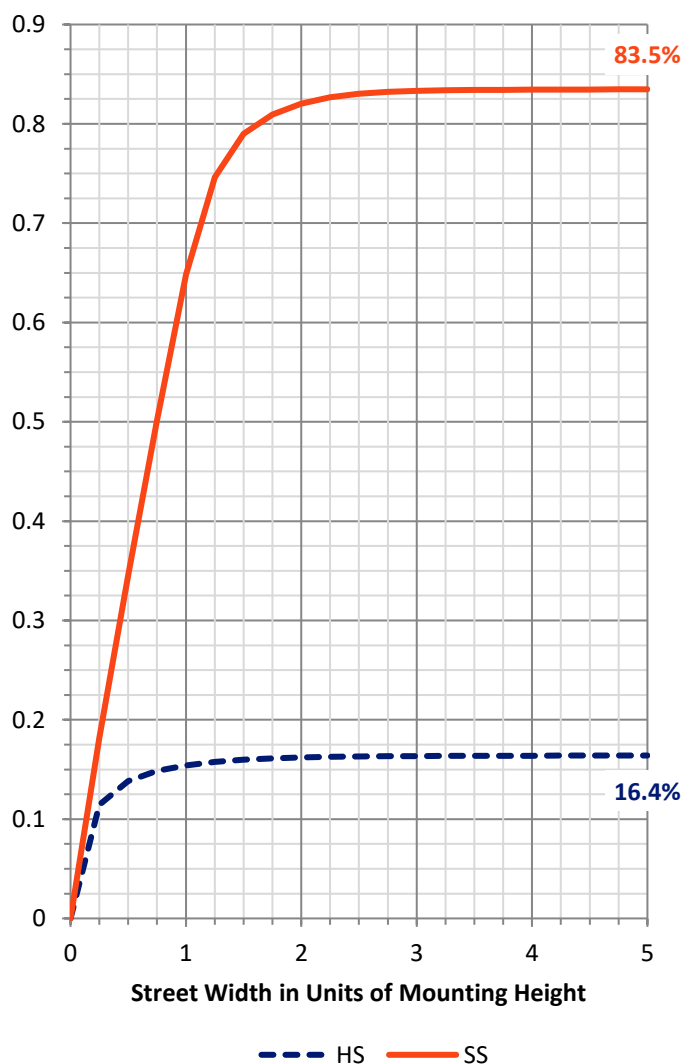
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3476.3	0.0	3476.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	17534.7	0.0	17534.7
	% Fixture	83.5	0.0	83.5
Total	Lumens	21011.0	0.0	21011.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	647.5	3.1
10°-20°	1484.5	7.1
20°-30°	2109.8	10.0
30°-40°	3256.0	15.5
40°-50°	5105.1	24.3
50°-60°	5930.3	28.2
60°-70°	2240.8	10.7
70°-80°	213.1	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°	21011.0	100.0
0°-180°	21011.0	100.0

Coefficient of Utilization



REPORT NUMBER: P532287

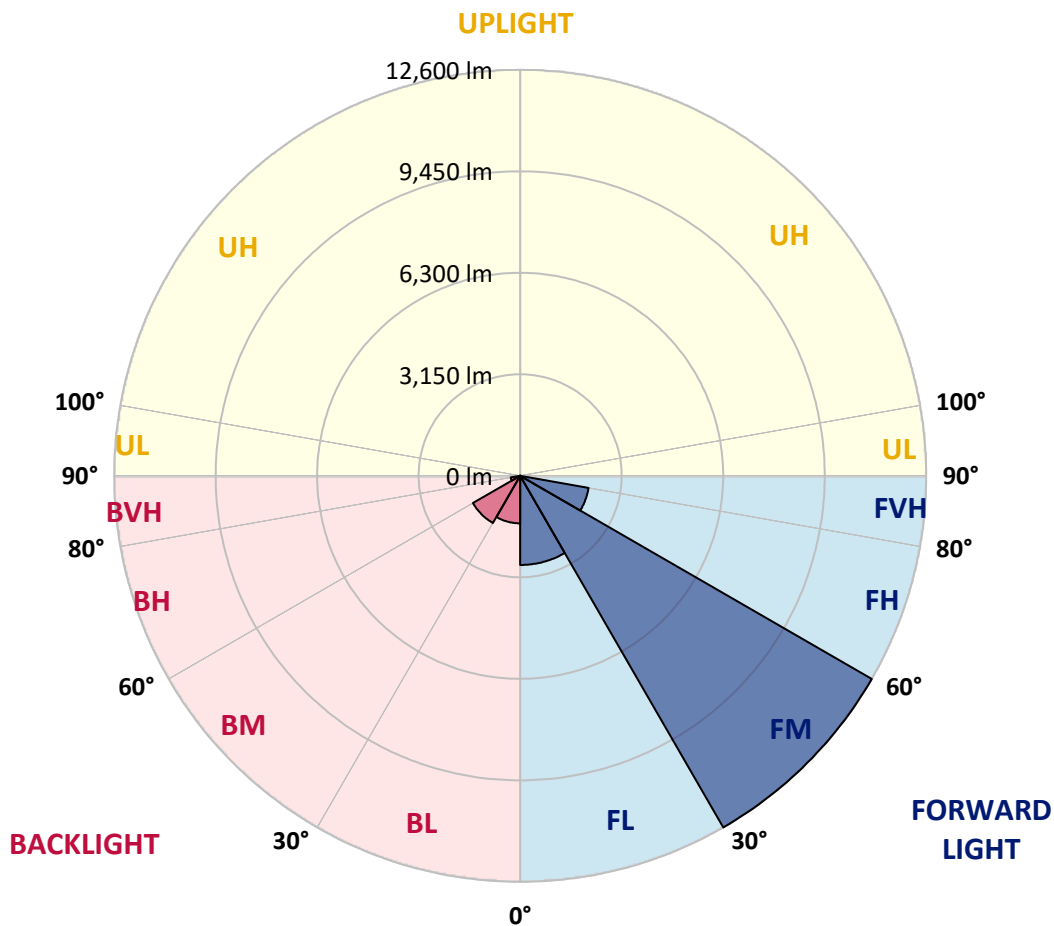
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2766.6	13.2			
FM (30°-60°)	12599.6	60.0			
FH (60°-80°)	2156.0	10.3			G2/5000
FVH (80°-90°)	12.4	0.1			G1/100
BL (0°-30°)	1475.2	7.0	B3/2500		
BM (30°-60°)	1691.7	8.1	B2/2500		
BH (60°-80°)	297.8	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: P532287

CATALOG NUMBER: GALN-SA7C-827-U-SL2-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	7546.8	7546.8	7546.8	7546.8	7546.8	7546.8	7546.8	7546.8	7546.8	7546.8	7546.8
2.5°	7507.7	7441.1	7507.7	7515.5	7562.5	7605.5	7578.1	7640.7	7605.5	7566.4	7554.6
5°	6900.9	6991.0	6994.9	7135.8	7104.5	7362.8	7476.3	7445.0	7636.8	7625.1	7597.7
7.5°	6356.8	6321.6	6368.6	6533.0	6740.4	7037.9	7202.3	7198.4	7472.4	7668.1	7648.6
10°	5851.9	5848.0	5945.8	6075.0	6251.2	6564.3	6791.3	6904.8	7331.5	7629.0	7672.1
12.5°	5511.4	5495.7	5601.4	5707.1	5985.0	6227.7	6517.3	6572.1	7061.4	7492.0	7562.5
15°	5288.2	5323.5	5331.3	5534.8	5711.0	6032.0	6259.0	6372.5	6936.2	7382.4	7652.5
17.5°	5249.1	5296.1	5300.0	5468.3	5656.2	5926.3	6125.9	6278.6	6830.5	7437.2	7656.4
20°	5327.4	5300.0	5323.5	5429.2	5613.1	5871.5	6161.1	6212.0	6795.2	7464.6	7699.5
22.5°	5550.5	5542.7	5484.0	5570.1	5699.2	5969.3	6243.3	6321.6	6897.0	7605.5	7734.7
25°	5797.1	5840.2	5785.4	5773.6	5863.6	6129.8	6493.8	6595.6	7237.6	7859.9	7844.3
27.5°	6259.0	6215.9	6215.9	6161.1	6137.6	6266.8	6763.9	6932.2	7617.3	8188.7	7969.5
30°	6701.3	6748.3	6713.0	6732.6	6576.0	6564.3	7147.5	7355.0	8290.5	8689.8	8235.7
32.5°	7402.0	7339.3	7398.1	7347.2	7139.7	6928.3	7668.1	7883.4	9104.7	9265.2	8635.0
35°	7985.2	7957.8	8208.3	8200.5	7863.9	7656.4	8220.1	8541.0	9672.3	9954.1	9104.7
37.5°	8815.0	8764.1	9049.9	9186.9	8885.5	8576.3	9010.8	9382.6	10200.7	10506.0	9586.2
40°	9668.4	9797.5	10181.1	10408.2	10087.2	9676.2	9977.6	10091.1	10553.0	10866.1	9915.0
42.5°	10748.7	10936.6	11328.0	11523.7	11496.3	11050.1	10960.1	10956.2	10807.4	10764.4	10157.6
45°	11786.0	11715.5	12318.3	12745.0	13089.5	12960.3	11907.3	11789.9	11210.6	10917.0	10220.3
47.5°	12240.1	12216.6	12627.6	13387.0	14561.2	14721.7	13285.2	12831.1	11891.7	11559.0	10560.8
50°	11652.9	11774.3	12181.3	13022.9	14823.5	16048.7	14976.2	14365.5	12686.3	12341.8	11367.2
52.5°	9734.9	9817.1	10204.6	11273.2	13931.0	16831.5	16596.7	16244.4	14146.3	13574.8	12772.4
54°	8004.8	8224.0	8435.3	9507.9	12341.8	16397.1	17485.2	17215.2	15097.5	14600.4	13657.0
55°	6971.4	7100.6	7253.2	8321.8	11241.9	15661.2	17383.5	17407.0	15735.5	14921.4	14252.0
57.5°	5092.5	5182.6	5026.0	5499.6	7719.0	12717.6	15899.9	16534.1	16596.7	15402.8	14616.0
60°	3890.8	3930.0	3753.8	3828.2	4798.9	8728.9	12298.8	13062.1	14972.3	13461.3	12381.0
62.5°	3017.9	3025.8	3021.9	3151.0	3307.6	5135.6	7691.6	8368.8	10322.0	9558.8	8407.9
65°	2223.3	2188.1	2250.7	2642.2	2822.2	3229.3	4051.3	4544.5	5609.2	4736.3	3385.9
67.5°	1440.5	1452.2	1514.8	1965.0	2419.0	2477.8	2493.4	2454.3	2458.2	1354.4	849.4
70°	865.1	884.6	865.1	1111.7	1730.1	1777.1	1624.4	1585.3	1236.9	321.0	317.1
72.5°	512.8	485.4	434.5	477.5	720.2	861.1	775.0	771.1	485.4	187.9	187.9
75°	215.3	195.7	160.5	144.8	191.8	184.0	184.0	164.4	129.2	125.3	117.4
77.5°	43.1	43.1	31.3	35.2	47.0	54.8	66.5	66.5	78.3	78.3	74.4
80°	0.0	3.9	11.7	23.5	35.2	50.9	58.7	58.7	66.5	66.5	54.8
82.5°	0.0	3.9	11.7	23.5	31.3	47.0	58.7	58.7	66.5	70.5	58.7
85°	0.0	3.9	11.7	19.6	31.3	39.1	39.1	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: P532287

CATALOG NUMBER: GALN-SA7C-827-U-SL2-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7546.8	7546.8	7546.8	7546.8	7546.8	7546.8	7546.8	7546.8	7546.8	7546.8	7546.8
2.5°	7582.0	7578.1	7484.2	7331.5	7296.3	7167.1	7151.5	7073.2	7116.2	6971.4	6955.7
5°	7519.4	7472.4	7358.9	7261.1	6975.3	6771.8	6611.3	6415.6	6302.0	6321.6	6247.2
7.5°	7609.4	7488.1	7288.5	6947.9	6599.5	6243.3	6051.5	5652.3	5507.4	5292.2	5260.8
10°	7515.5	7425.5	7116.2	6552.6	6071.1	5558.3	5108.2	4665.9	4329.2	4184.4	4153.1
12.5°	7507.7	7351.1	6834.4	6208.1	5511.4	4775.5	4121.8	3569.9	3237.1	3049.3	3006.2
15°	7386.3	7198.4	6517.3	5675.8	4712.8	3796.9	3084.5	2552.1	2297.7	2188.1	2219.4
17.5°	7398.1	7116.2	6200.3	5112.1	3926.1	2787.0	2105.9	1831.9	1765.4	1792.8	1792.8
20°	7386.3	6932.2	5816.7	4462.3	3006.2	1933.7	1546.2	1448.3	1491.4	1577.5	1557.9
22.5°	7323.7	6846.1	5464.4	3777.3	2211.6	1432.6	1240.8	1244.8	1311.3	1417.0	1440.5
25°	7370.7	6654.3	5018.2	3084.5	1612.7	1143.0	1076.4	1103.8	1174.3	1252.6	1268.2
27.5°	7335.4	6517.3	4552.3	2395.6	1178.2	982.5	978.6	1009.9	1041.2	1099.9	1099.9
30°	7374.6	6392.1	4094.4	1781.0	970.7	900.3	884.6	908.1	939.4	951.2	947.3
32.5°	7519.4	6298.1	3565.9	1330.9	857.2	822.0	822.0	822.0	818.1	833.7	837.7
35°	7836.5	6313.8	3100.1	1029.5	782.9	755.5	743.7	728.1	720.2	728.1	732.0
37.5°	8180.9	6306.0	2618.7	876.8	728.1	704.6	677.2	653.7	649.8	657.6	645.9
40°	8333.6	6380.3	2172.4	786.8	677.2	649.8	606.7	587.1	591.1	598.9	591.1
42.5°	8541.0	6403.8	1882.8	716.3	630.2	587.1	559.7	536.3	532.3	544.1	540.2
45°	8537.1	6270.7	1577.5	677.2	587.1	540.2	504.9	485.4	485.4	493.2	497.1
47.5°	8787.6	6251.2	1354.4	641.9	555.8	508.9	465.8	450.1	446.2	446.2	438.4
50°	9370.9	6525.2	1182.1	602.8	516.7	473.6	438.4	418.8	403.2	395.3	391.4
52.5°	10509.9	7378.5	1049.0	555.8	473.6	438.4	407.1	391.4	371.9	352.3	348.4
54°	11613.8	8259.2	1041.2	516.7	438.4	414.9	387.5	379.7	356.2	328.8	321.0
55°	12110.9	8772.0	1068.6	485.4	414.9	399.3	375.8	367.9	344.5	313.1	309.2
57.5°	12521.9	8971.6	1053.0	403.2	375.8	371.9	352.3	340.5	313.1	270.1	262.3
60°	10079.4	6783.5	755.5	356.2	344.5	336.6	321.0	313.1	277.9	230.9	227.0
62.5°	6368.6	3902.6	481.5	313.1	301.4	289.7	270.1	262.3	230.9	184.0	172.2
65°	2712.6	1616.6	324.9	277.9	258.3	238.8	223.1	211.4	184.0	137.0	133.1
67.5°	704.6	575.4	270.1	242.7	215.3	187.9	176.1	156.6	125.3	93.9	90.0
70°	317.1	289.7	227.0	203.5	172.2	144.8	129.2	109.6	82.2	62.6	58.7
72.5°	187.9	184.0	172.2	152.7	129.2	109.6	93.9	74.4	54.8	35.2	35.2
75°	117.4	113.5	117.4	105.7	90.0	82.2	70.5	50.9	31.3	15.7	15.7
77.5°	70.5	70.5	70.5	66.5	62.6	62.6	50.9	31.3	15.7	3.9	3.9
80°	54.8	54.8	58.7	54.8	54.8	54.8	43.1	23.5	7.8	0.0	0.0
82.5°	54.8	58.7	66.5	62.6	54.8	47.0	39.1	23.5	7.8	0.0	0.0
85°	15.7	11.7	19.6	27.4	39.1	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)