

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: P651451

Luminaire Tested: **GALN-SA6D-840-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651451
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-840-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31574.5 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 368
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

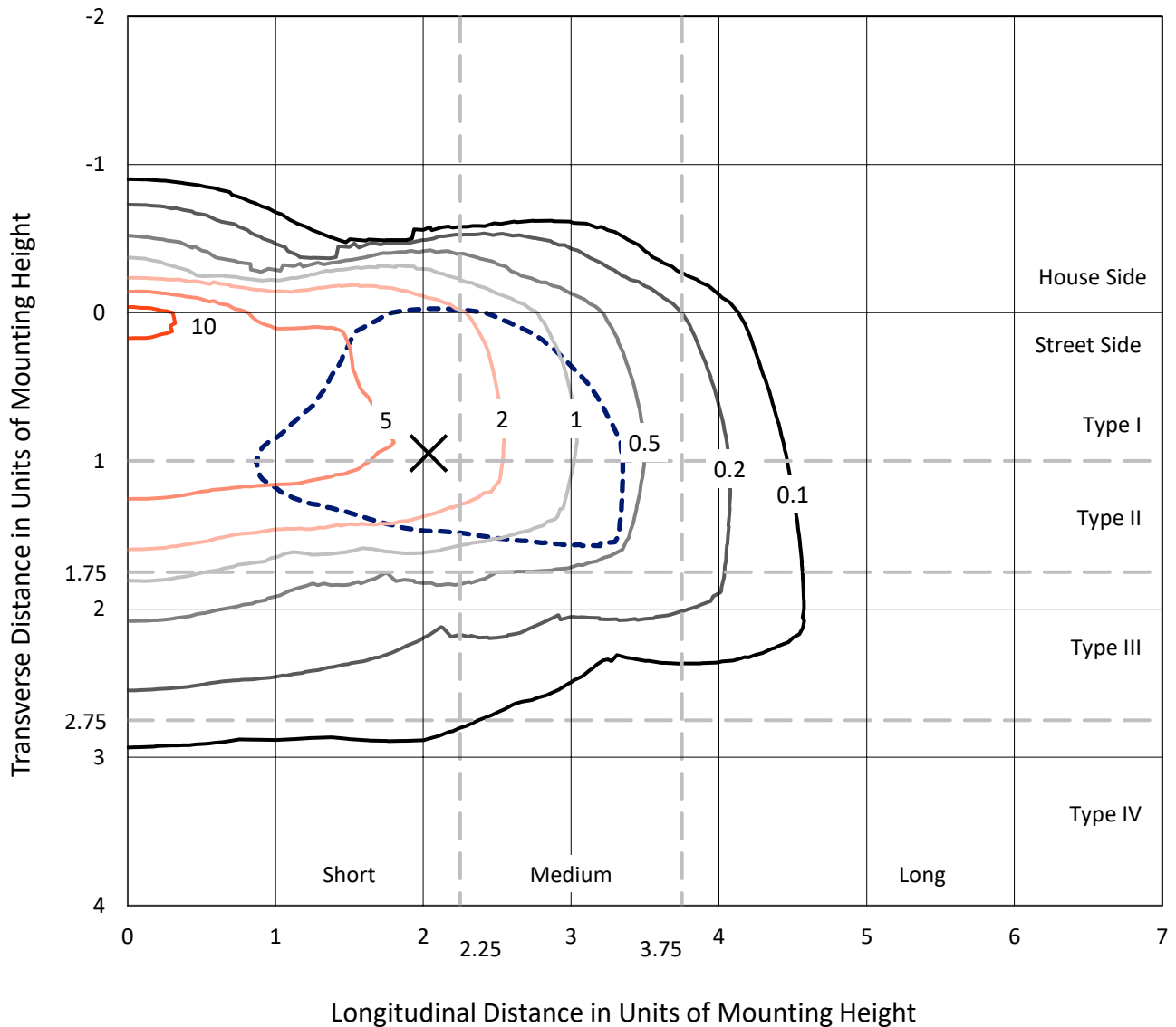




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Iso-Footcandle Lines of Horizontal Illumination

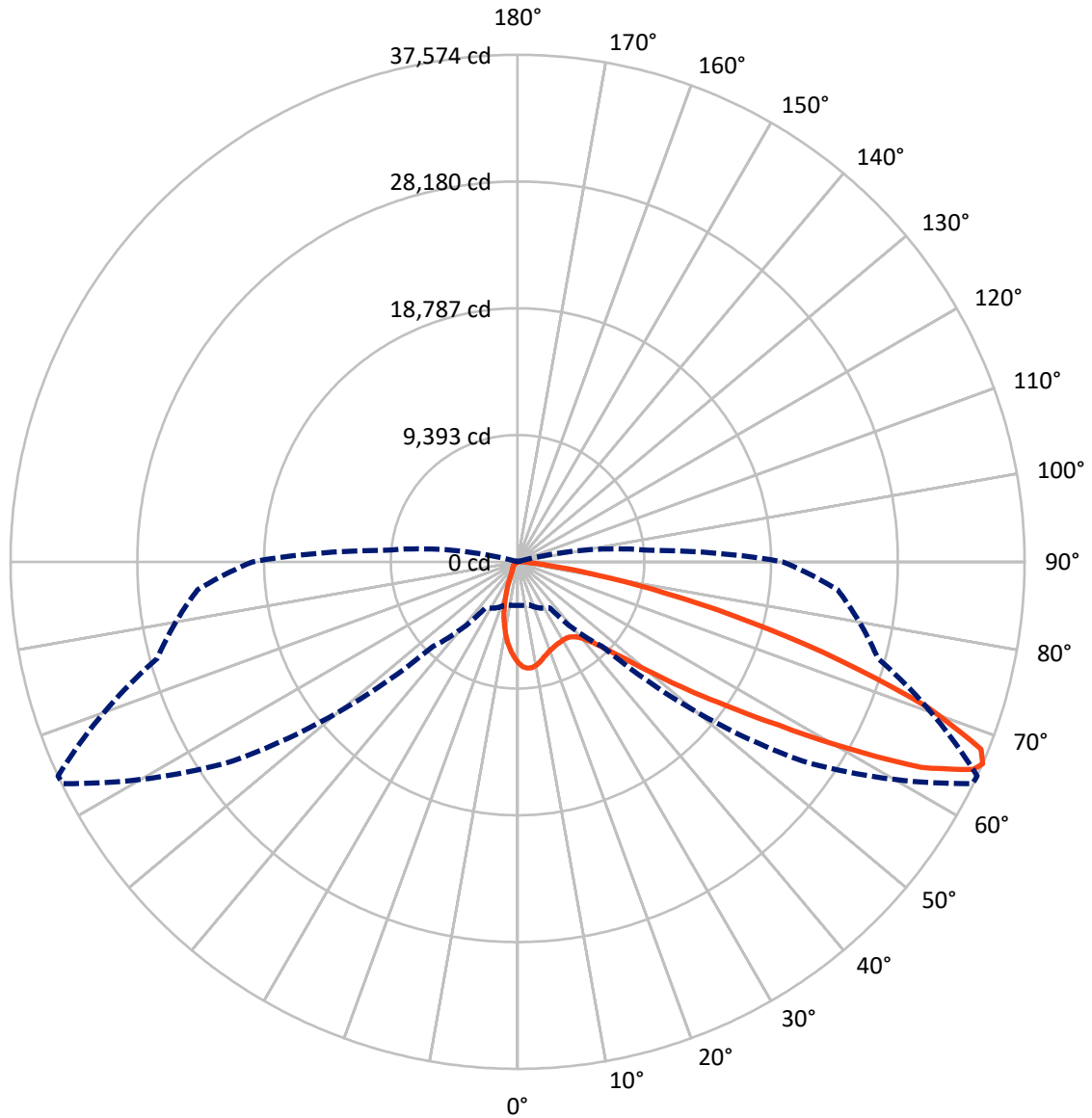
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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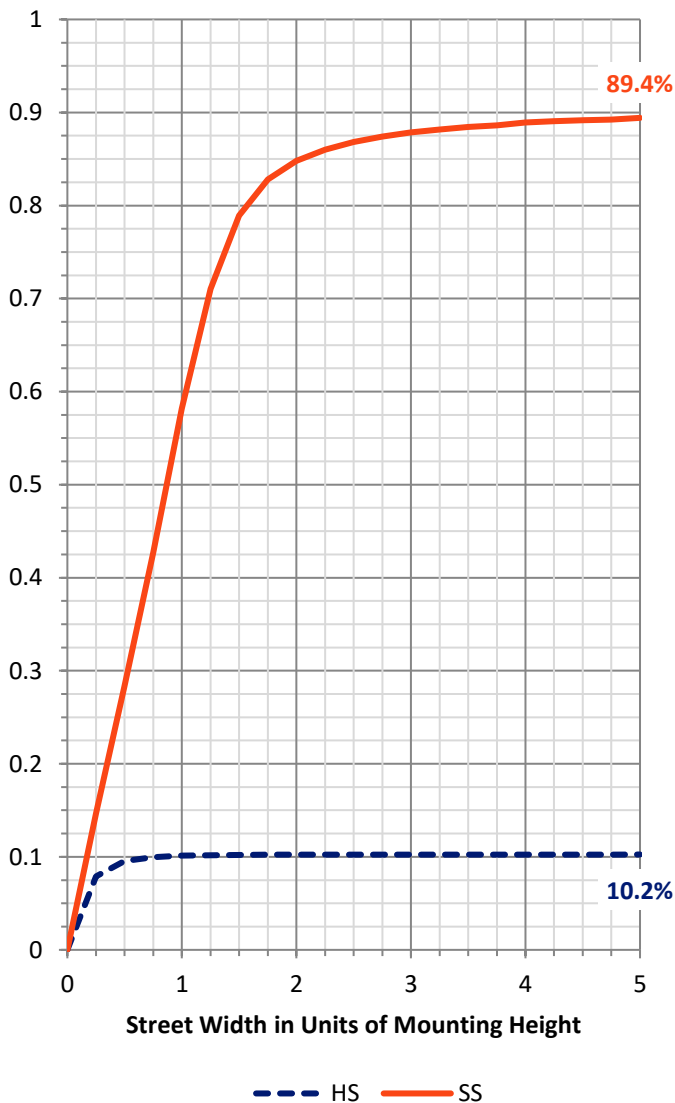
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3265.3	0.0	3265.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	28309.3	0.0	28309.3
	% Fixture	89.7	0.0	89.7
Total	Lumens	31574.5	0.0	31574.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	612.4	1.9
10°-20°	1334.2	4.2
20°-30°	1911.3	6.1
30°-40°	2791.6	8.8
40°-50°	4681.1	14.8
50°-60°	7812.0	24.7
60°-70°	8292.2	26.3
70°-80°	3755.5	11.9
80°-90°	384.3	1.2
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°	31574.5	100.0
0°-180°	31574.5	100.0

Coefficient of Utilization

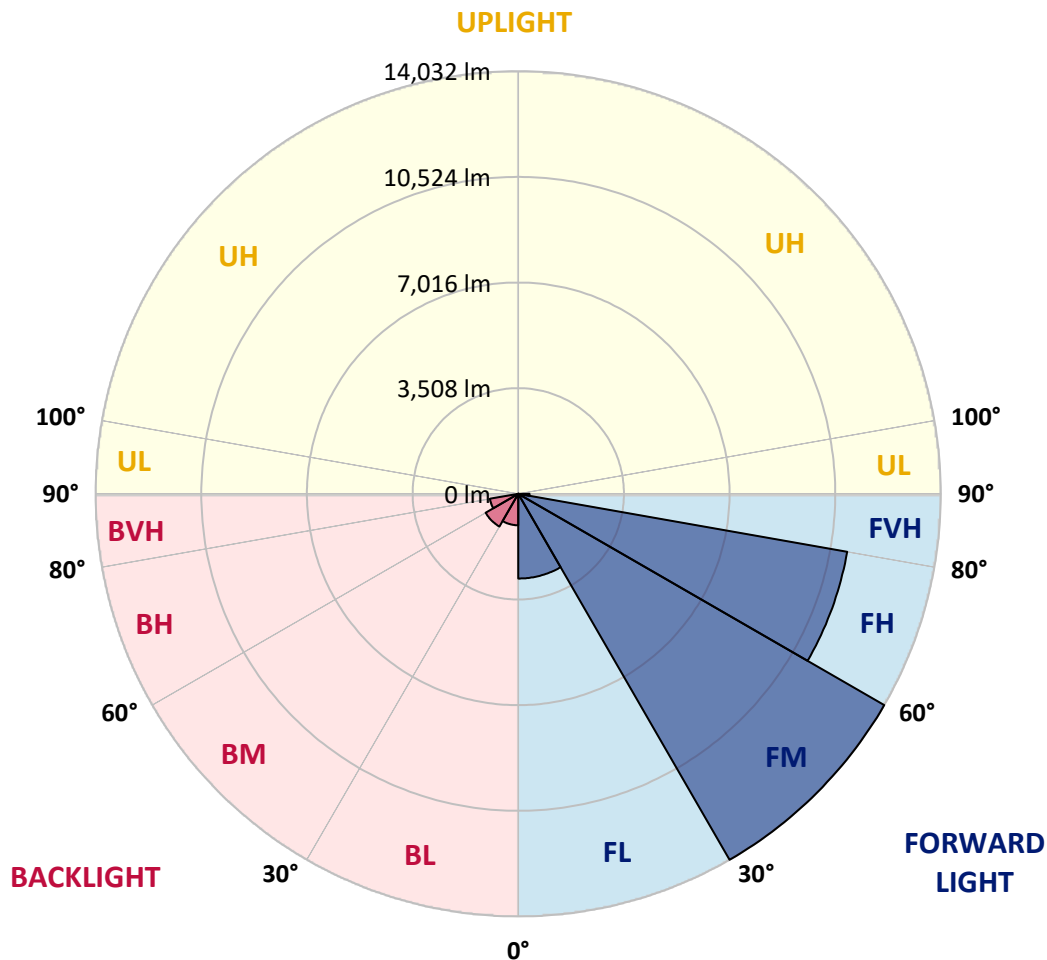


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2813.4	8.9			
FM (30°-60°)	14032.4	44.4			
FH (60°-80°)	11091.4	35.1			G4/12000
FVH (80°-90°)	372.0	1.2			G3/500
BL (0°-30°)	1044.5	3.3	B3/2500		
BM (30°-60°)	1252.2	4.0	B2/2500		
BH (60°-80°)	956.2	3.0	B2/1000		G2/1000
BVH (80°-90°)	12.2	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	7487.5	7487.5	7487.5	7487.5	7487.5	7487.5	7487.5	7487.5	7487.5	7487.5	7487.5
2.5°	7890.5	7899.1	7909.7	7924.7	7935.3	7903.3	7858.6	7807.3	7796.7	7687.9	7555.7
5°	7468.2	7481.1	7574.9	7626.1	7741.2	7845.8	7911.9	7920.4	7916.2	7813.7	7602.6
7.5°	6866.9	6903.2	6994.8	7084.4	7299.8	7498.1	7732.7	7896.9	7907.6	7879.8	7617.5
10°	6378.6	6402.0	6449.0	6625.9	6805.0	7107.9	7436.3	7745.5	7771.1	7882.0	7604.7
12.5°	5996.8	6030.9	6088.5	6225.0	6440.4	6726.1	7099.4	7515.2	7568.5	7841.5	7568.5
15°	5730.2	5747.3	5804.8	5939.2	6148.2	6412.6	6790.1	7274.2	7321.2	7788.2	7562.1
17.5°	5604.4	5623.6	5664.1	5770.8	5943.5	6188.8	6557.7	7080.1	7139.8	7754.0	7585.6
20°	5638.6	5655.6	5657.7	5713.2	5830.5	6037.3	6387.1	6898.9	6975.7	7732.7	7624.0
22.5°	5832.6	5834.8	5809.1	5783.6	5824.1	5973.4	6282.6	6783.8	6862.6	7728.5	7668.7
25°	6122.6	6129.0	6086.4	5996.8	5915.8	5992.5	6259.1	6709.1	6779.5	7717.8	7696.5
27.5°	6523.6	6521.5	6508.7	6359.3	6129.0	6077.8	6278.3	6668.5	6728.3	7687.9	7707.2
30°	7084.4	7067.3	7039.7	6871.1	6519.3	6284.7	6359.3	6643.0	6698.4	7645.3	7679.4
32.5°	7636.8	7700.7	7696.5	7536.5	7097.2	6653.7	6527.8	6677.1	6717.7	7617.5	7638.9
35°	8280.8	8278.6	8442.9	8383.2	7869.2	7125.0	6815.7	6790.1	6822.1	7636.8	7619.7
37.5°	8877.9	8933.4	9189.3	9251.1	8782.0	7790.3	7223.0	7033.2	7043.9	7766.9	7666.6
40°	9622.2	9728.9	10110.6	10317.4	9903.7	8777.7	7824.4	7478.9	7481.1	8086.7	7843.6
42.5°	10581.9	10750.3	11106.5	11452.0	11230.1	9946.3	8726.5	8184.9	8180.6	8649.8	8248.8
45°	11748.3	11865.7	12270.9	12818.9	12678.2	11577.8	10040.2	9278.8	9223.4	9573.1	8967.5
47.5°	12754.9	12914.9	13326.5	13951.3	14591.1	13569.6	11609.8	10782.3	10746.0	11042.5	10200.2
50°	13194.3	13335.0	13767.9	14644.4	16194.8	16184.1	13947.1	12976.7	12914.9	13074.9	12106.6
52.5°	12712.3	12844.5	13281.7	14373.5	16949.8	19370.2	17333.6	15729.9	15655.2	15450.5	14384.2
55°	11061.7	11170.4	11816.6	13070.6	16659.7	21494.3	21999.6	19131.3	18841.3	18045.8	16962.5
57.5°	8807.5	8752.1	9153.0	10609.6	14957.9	22206.5	26789.5	23368.8	22850.6	20289.4	19144.2
60°	6103.5	6274.0	6436.1	7395.8	11247.2	20971.8	29768.6	28695.9	28013.5	22496.6	21234.1
62.5°	4486.9	4599.9	4706.6	5150.2	7071.6	16745.0	30295.4	34168.1	33562.5	24840.3	23228.0
65°	3548.6	3557.2	3599.8	4037.0	4659.6	10888.9	27764.0	37254.0	37098.3	27096.5	24036.3
66°	3233.0	3235.2	3301.3	3770.4	4182.0	8867.3	25735.9	37488.6	37573.9	27638.2	23799.5
67.5°	2825.7	2817.1	2913.1	3388.6	3808.8	6393.5	22106.3	36537.4	37042.9	28054.1	22948.7
70°	2190.1	2179.5	2296.8	2842.7	3508.1	4265.1	14693.4	31372.3	32187.0	27203.2	20304.3
72.5°	1458.7	1467.2	1667.7	2243.5	3348.1	3755.5	8839.5	23865.6	25017.2	22464.5	15973.0
75°	850.9	865.8	1094.0	1667.7	2906.7	3580.6	5003.0	17018.0	17753.7	15512.3	9950.6
77.5°	445.7	452.1	612.1	1100.4	2228.6	3324.7	3333.2	10871.9	11217.3	7538.6	3938.9
80°	236.7	230.3	328.4	663.2	1533.3	2919.5	2704.1	5755.8	5984.1	2239.2	995.9
82.5°	89.6	98.1	174.8	435.0	906.3	2096.4	2328.8	2544.2	2465.2	492.7	418.0
85°	17.1	21.4	74.7	258.0	456.4	876.5	1716.7	1247.5	1155.9	185.5	240.9
87.5°	2.1	4.3	21.4	61.8	66.1	296.5	507.5	345.5	298.6	68.2	100.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7487.5	7487.5	7487.5	7487.5	7487.5	7487.5	7487.5	7487.5	7487.5	7487.5	7487.5
2.5°	7491.7	7434.2	7242.3	7052.5	6858.4	6683.5	6564.1	6370.0	6321.0	6250.6	6210.0
5°	7476.8	7342.4	6973.5	6570.5	6195.1	5789.9	5480.7	5182.2	5022.2	4941.2	4911.4
7.5°	7434.2	7220.9	6645.1	6013.9	5412.5	4806.8	4280.1	3879.2	3621.1	3444.1	3324.7
10°	7348.8	7054.6	6263.3	5395.4	4486.9	3687.2	3019.7	2512.2	2119.7	1996.1	2000.3
12.5°	7261.4	6869.0	5836.9	4708.8	3582.7	2574.0	1866.0	1465.1	1277.4	1215.6	1202.8
15°	7180.4	6692.0	5418.9	4043.4	2667.8	1667.7	1202.8	1062.0	1010.9	1000.2	998.0
17.5°	7137.7	6527.8	4973.2	3282.0	1861.7	1132.4	964.0	925.5	910.6	900.0	895.7
20°	7101.5	6385.0	4546.6	2569.8	1273.2	927.7	863.7	827.5	801.8	791.2	784.8
22.5°	7075.9	6237.8	4105.2	1989.7	974.6	823.2	765.6	718.7	682.4	669.6	661.1
25°	7037.5	6075.7	3659.5	1454.4	821.1	731.5	665.4	609.9	563.0	539.5	535.3
27.5°	6982.1	5892.3	3171.2	1077.0	733.6	650.4	569.4	501.2	454.2	428.7	430.8
30°	6892.5	5700.4	2682.8	855.1	663.2	567.3	479.8	413.7	368.9	349.8	347.6
32.5°	6785.9	5467.9	2235.0	733.6	599.2	492.7	400.9	343.4	309.2	294.3	292.2
35°	6685.6	5233.4	1778.5	659.0	533.1	424.4	337.0	287.9	262.3	249.5	251.6
37.5°	6630.2	5024.4	1386.1	599.2	479.8	364.7	290.1	247.3	224.0	213.3	211.1
40°	6666.4	4853.7	1102.6	546.0	420.1	313.5	249.5	213.3	189.8	174.8	174.8
42.5°	6837.1	4779.1	889.3	494.8	364.7	270.8	217.5	183.4	157.8	142.9	145.0
45°	7357.4	4858.0	744.3	447.8	313.5	234.6	187.6	151.4	127.9	117.3	115.1
47.5°	8221.1	5154.4	644.0	398.8	268.7	200.5	157.8	125.8	102.3	93.9	91.7
50°	9731.0	5766.5	569.4	349.8	228.2	170.6	130.1	100.2	81.1	72.5	72.5
52.5°	11808.1	7101.5	516.1	294.3	191.9	145.0	106.6	81.1	64.0	57.6	55.4
55°	13979.0	8509.0	488.4	247.3	160.0	119.4	85.3	64.0	49.0	42.6	40.5
57.5°	16066.8	9613.6	456.4	200.5	127.9	91.7	66.1	49.0	34.1	29.9	27.8
60°	18069.3	10507.2	388.1	160.0	100.2	66.1	49.0	34.1	23.5	19.2	19.2
62.5°	19860.7	11027.5	304.9	127.9	76.8	46.9	32.0	25.6	17.1	12.8	12.8
65°	20069.7	10351.5	230.3	98.1	55.4	29.9	19.2	19.2	12.8	8.5	8.5
66°	19649.5	9777.9	202.6	89.6	49.0	25.6	17.1	15.0	10.7	6.4	6.4
67.5°	18711.2	8799.0	174.8	76.8	40.5	19.2	12.8	12.8	8.5	4.3	4.3
70°	16167.0	7186.8	138.6	57.6	29.9	15.0	8.5	8.5	6.4	4.3	4.3
72.5°	12322.0	5365.6	113.0	42.6	21.4	10.7	6.4	6.4	6.4	4.3	4.3
75°	7432.0	2889.7	87.5	32.0	19.2	8.5	4.3	6.4	8.5	6.4	4.3
77.5°	2738.2	983.1	68.2	25.6	15.0	8.5	4.3	4.3	8.5	6.4	6.4
80°	671.8	255.9	49.0	21.4	15.0	8.5	4.3	4.3	8.5	8.5	8.5
82.5°	311.3	108.7	34.1	19.2	15.0	8.5	4.3	4.3	6.4	8.5	8.5
85°	179.1	51.2	27.8	21.4	15.0	8.5	4.3	4.3	6.4	8.5	8.5
87.5°	72.5	25.6	25.6	21.4	17.1	10.7	4.3	4.3	4.3	6.4	6.4
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)