

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: P651481

Luminaire Tested: **GALN-SA6D-840-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651481
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
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-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30205.4 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

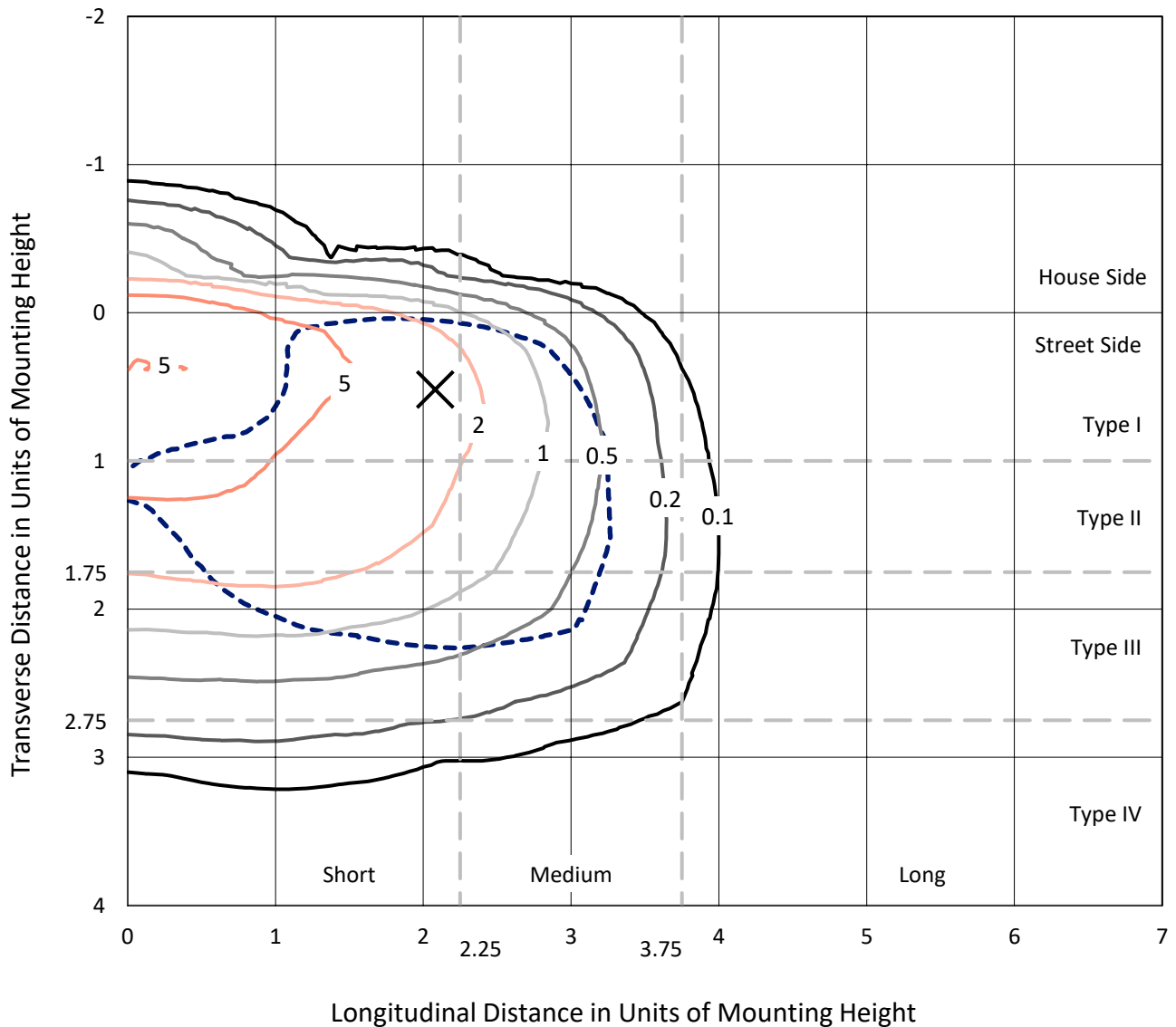
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651481
 CATALOG NUMBER: GALN-SA6D-840-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

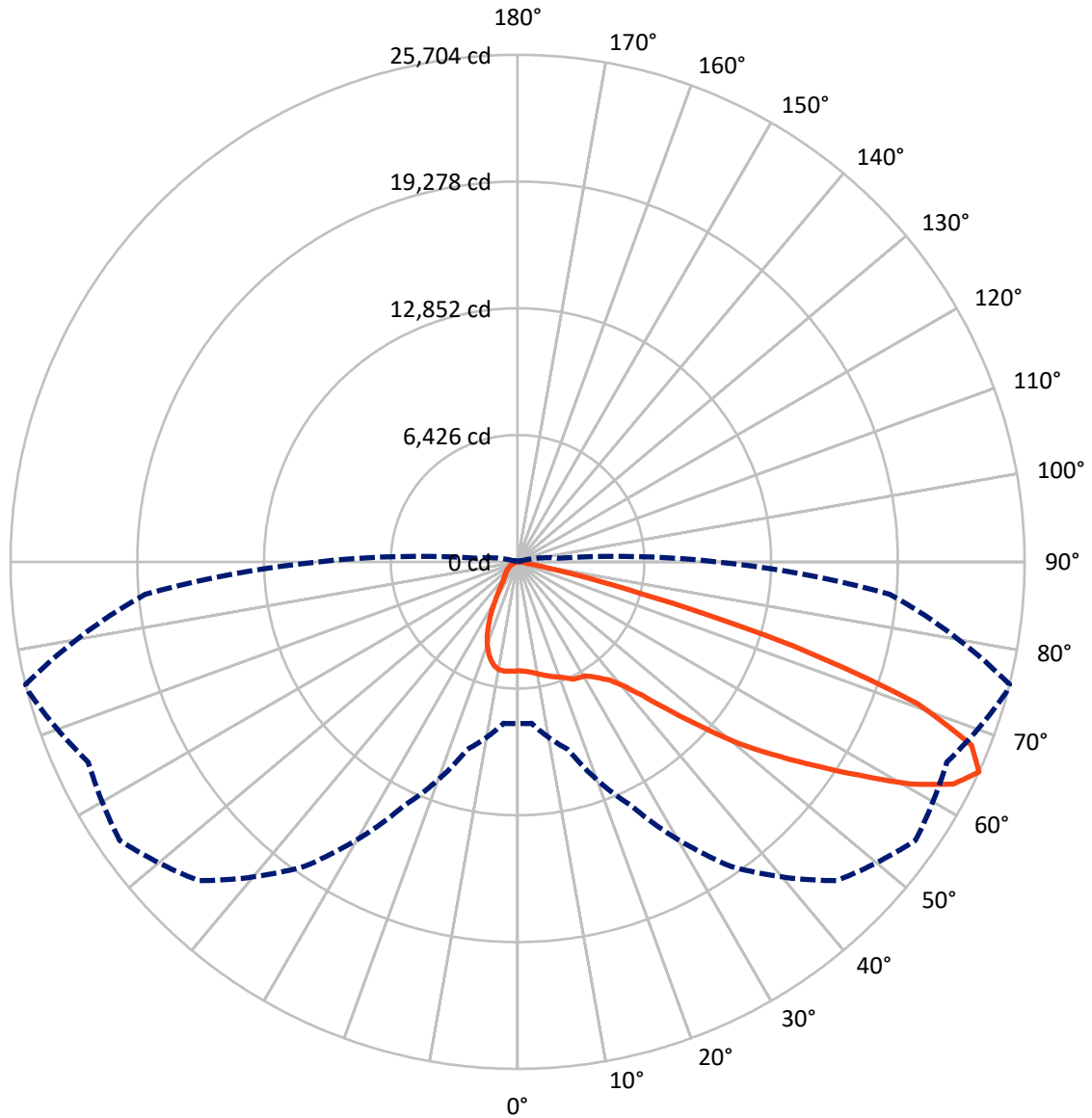
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P651481
CATALOG NUMBER: GALN-SA6D-840-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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 CATALOG NUMBER: GALN-SA6D-840-U-T3R-HSS

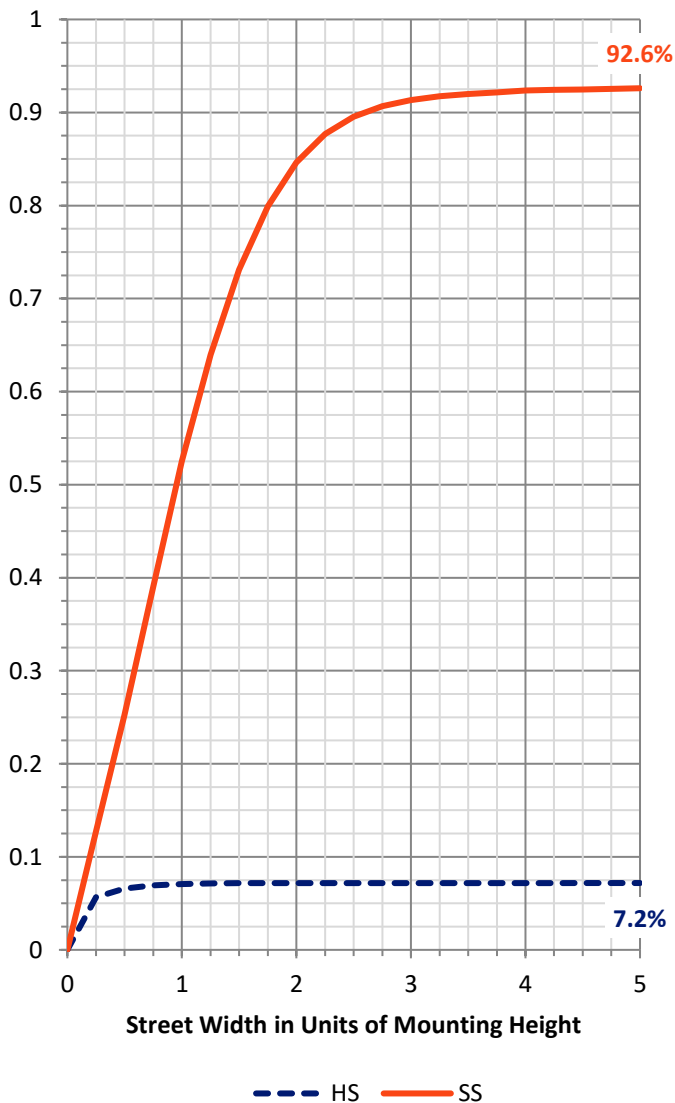
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2181.4	0.0	2181.4
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	28023.9	0.0	28023.9
	% Fixture	92.8	0.0	92.8
Total	Lumens	30205.4	0.0	30205.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	455.2	1.5
10°-20°	1013.5	3.4
20°-30°	1633.1	5.4
30°-40°	2839.6	9.4
40°-50°	4692.3	15.5
50°-60°	7248.6	24.0
60°-70°	8851.6	29.3
70°-80°	3359.4	11.1
80°-90°	112.1	0.4
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°	30205.4	100.0
0°-180°	30205.4	100.0

Coefficient of Utilization

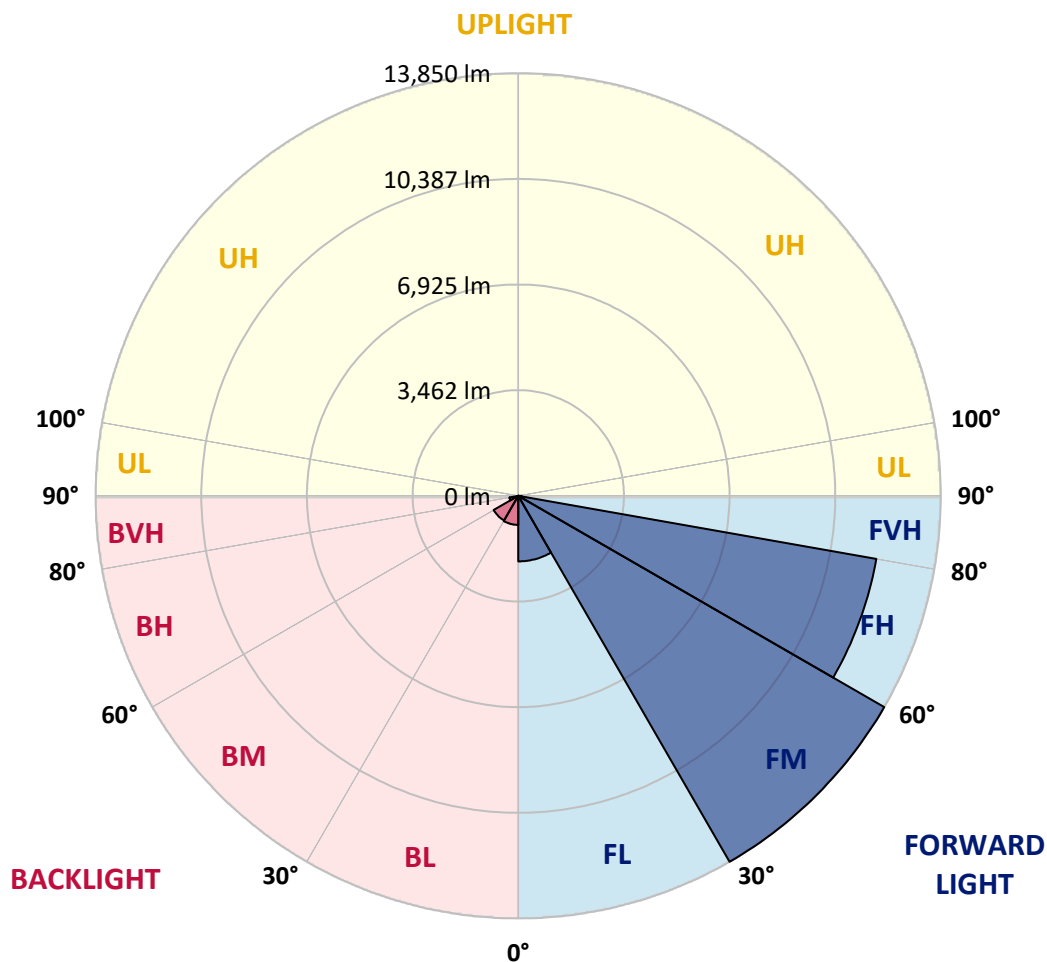


REPORT NUMBER: P651481
 CATALOG NUMBER: GALN-SA6D-840-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2148.8	7.1			
FM (30°-60°)	13849.6	45.9			
FH (60°-80°)	11915.0	39.4			G4/12000
FVH (80°-90°)	110.6	0.4			G2/225
BL (0°-30°)	953.0	3.2	B2/1000		
BM (30°-60°)	930.9	3.1	B1/1000		
BH (60°-80°)	296.0	1.0	B1/500		G1/500
BVH (80°-90°)	1.5	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-G4
 Type III Short





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CATALOG NUMBER: GALN-SA6D-840-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5525.5	5525.5	5525.5	5525.5	5525.5	5525.5	5525.5	5525.5	5525.5	5525.5	5525.5
2.5°	5280.3	5282.4	5295.2	5327.2	5376.3	5416.8	5450.9	5506.4	5544.7	5549.0	5561.8
5°	4915.6	4890.0	4915.6	4998.7	5073.4	5186.4	5325.0	5463.6	5587.4	5595.9	5655.6
7.5°	4506.2	4527.4	4568.0	4653.3	4794.0	4966.8	5167.3	5414.6	5649.2	5670.5	5787.8
10°	4090.3	4137.2	4203.3	4333.4	4529.6	4753.5	5026.5	5380.5	5747.3	5777.2	5979.8
12.5°	3706.5	3727.7	3808.8	3983.6	4226.8	4542.4	4919.8	5361.3	5856.1	5892.3	6184.5
15°	3412.1	3439.9	3510.2	3668.0	3938.9	4344.1	4832.5	5354.9	5962.7	6013.9	6389.2
17.5°	3356.7	3373.8	3403.6	3510.2	3746.9	4186.2	4753.5	5352.8	6065.0	6126.9	6579.1
20°	3584.8	3570.0	3540.1	3529.4	3659.5	4064.7	4696.0	5369.9	6163.2	6233.6	6779.5
22.5°	4156.4	4175.6	4000.7	3793.8	3751.2	4045.5	4687.4	5450.9	6318.9	6402.0	7003.4
25°	5369.9	5222.7	4949.7	4454.9	4081.8	4162.8	4783.4	5642.9	6500.1	6591.8	7206.0
27.5°	6711.3	6666.4	6242.1	5427.4	4732.2	4410.2	4954.0	5789.9	6559.8	6653.7	7321.2
30°	8029.2	8082.5	7596.2	6696.3	5676.9	4868.7	5114.0	5845.4	6613.1	6711.3	7468.3
32.5°	9251.2	9315.1	8888.6	7997.2	6790.1	5662.0	5389.0	6060.8	6837.1	6937.3	7713.6
35°	10212.9	10221.5	9899.4	9189.3	8005.7	6625.9	5984.1	6438.3	7139.9	7257.2	7973.7
37.5°	11095.8	11083.0	10705.6	10093.5	9018.7	7583.5	6732.5	6873.3	7485.4	7606.9	8349.0
40°	11750.5	11759.0	11637.5	11061.7	9963.4	8468.4	7325.4	7280.6	8065.4	8255.3	8895.0
42.5°	12187.7	12266.7	12326.4	12034.2	11151.2	9558.2	8236.0	8152.9	9072.0	9229.8	9667.0
45°	12541.7	12682.4	12981.0	12966.1	12292.2	10895.4	9485.7	9315.1	10498.7	10667.2	10650.1
47.5°	12799.8	12942.7	13437.4	13736.0	13364.9	12192.0	11057.5	10910.3	12202.7	12386.1	11735.6
50°	12932.0	13102.6	13733.9	14311.8	14203.0	13441.7	12848.8	12857.4	14260.6	14437.6	12993.9
52.5°	12622.7	12844.5	13891.6	14932.4	15143.5	14638.0	14527.2	14808.7	16092.5	16243.9	14130.5
55°	11635.4	11914.8	13676.3	15461.2	16233.2	16049.8	16433.7	16862.3	18095.0	18193.1	15297.0
57.5°	11010.5	11307.0	13040.7	15911.2	17542.7	17824.2	18431.9	18745.4	20161.5	20411.0	16636.2
60°	10483.8	10716.2	12518.3	16007.2	18873.4	19995.1	20585.8	20910.0	22712.0	22874.1	18109.9
62.5°	9607.2	9873.8	11635.4	15337.6	19543.0	21733.1	22957.3	22812.2	24684.6	24797.6	19014.1
65°	8197.6	8221.1	9844.0	13654.9	18852.0	22861.3	24622.8	24015.0	25627.3	25704.0	18943.8
67.5°	6118.4	6344.4	7572.8	10733.3	15924.0	21897.4	25162.4	24047.0	25032.3	24819.0	17440.2
70°	3941.0	4113.8	5133.1	7442.7	11481.8	18274.1	23373.2	22398.5	21969.9	21496.5	14275.6
72.5°	1819.1	2040.9	3049.6	4252.3	6809.3	13017.3	18973.6	18197.3	15813.1	14644.4	9074.1
75°	793.3	848.7	1505.6	2243.5	3192.4	6884.0	12509.7	11296.3	7142.0	6523.6	3631.8
77.5°	484.1	520.3	789.0	1202.8	1253.9	2623.1	6738.9	4928.4	2207.2	1947.1	985.2
80°	328.4	368.9	573.6	629.2	428.7	731.5	2529.2	1315.8	445.7	426.6	211.1
82.5°	160.0	202.6	424.4	351.9	185.5	234.6	735.7	281.5	130.1	121.5	74.7
85°	23.5	40.5	238.8	230.3	83.2	55.4	130.1	70.4	44.8	42.6	34.1
87.5°	0.0	0.0	81.1	36.2	8.5	8.5	15.0	15.0	17.1	15.0	17.1
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: P651481

CATALOG NUMBER: GALN-SA6D-840-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5525.5	5525.5	5525.5	5525.5	5525.5	5525.5	5525.5	5525.5	5525.5	5525.5	5525.5
2.5°	5568.2	5578.9	5538.3	5480.7	5418.9	5357.1	5269.6	5190.7	5143.8	5171.5	5103.3
5°	5668.4	5659.8	5553.2	5378.4	5145.9	4866.5	4589.3	4352.6	4275.8	4160.7	4147.9
7.5°	5807.0	5783.6	5557.5	5156.6	4632.0	4107.4	3595.5	3256.4	3062.4	2898.2	2902.5
10°	6001.1	5932.8	5508.5	4766.3	3902.7	3111.4	2458.8	2011.0	1817.0	1755.1	1706.1
12.5°	6201.5	6069.3	5372.0	4239.6	3039.0	2126.2	1495.0	1222.0	1102.6	1064.1	1059.9
15°	6380.7	6171.7	5133.1	3606.2	2209.4	1358.5	1019.4	929.8	914.8	917.0	914.8
17.5°	6557.7	6252.8	4802.6	2934.4	1501.4	974.6	876.5	855.1	861.6	870.1	868.0
20°	6704.9	6269.8	4380.3	2239.2	1062.0	855.1	823.2	818.9	825.3	831.7	831.7
22.5°	6864.7	6282.6	3879.2	1550.4	868.0	795.4	778.4	778.4	786.9	795.4	797.6
25°	6984.3	6212.2	3279.9	1113.2	765.6	737.9	729.3	731.5	740.0	744.3	742.1
27.5°	7003.4	6013.9	2644.4	853.0	695.3	667.5	659.0	667.5	656.8	663.2	659.0
30°	7020.5	5762.3	2000.4	718.7	631.3	588.6	575.8	563.0	554.5	543.8	541.7
32.5°	7073.8	5465.8	1460.8	646.1	571.5	524.6	494.8	458.5	430.8	422.3	420.1
35°	7097.2	5109.7	1072.7	588.6	518.2	467.0	413.7	362.6	322.0	307.1	317.7
37.5°	7186.8	4764.2	831.7	546.0	471.3	407.3	339.1	275.1	236.7	228.2	232.5
40°	7370.2	4388.8	697.4	509.6	430.8	351.9	268.7	206.9	181.2	172.7	170.6
42.5°	7664.5	4015.7	620.6	475.6	390.2	296.5	211.1	162.1	140.8	134.4	134.4
45°	8022.8	3657.3	567.3	439.3	347.6	238.8	166.3	130.1	117.3	113.0	113.0
47.5°	8494.1	3343.9	522.5	403.1	300.7	189.8	134.4	113.0	104.5	106.6	108.7
50°	8971.8	3111.4	473.4	362.6	247.3	155.7	115.1	100.2	98.1	100.2	100.2
52.5°	9332.2	2975.0	407.3	307.1	194.1	130.1	102.3	93.9	91.7	87.5	87.5
55°	9818.4	2945.1	324.1	249.5	153.6	108.7	91.7	85.3	78.9	74.7	72.5
57.5°	10443.3	2979.2	249.5	194.1	119.4	89.6	81.1	70.4	61.8	53.3	53.3
60°	10831.4	2902.5	194.1	149.3	87.5	72.5	61.8	51.2	40.5	34.1	32.0
62.5°	10707.7	2578.3	153.6	110.9	61.8	53.3	40.5	34.1	23.5	17.1	15.0
65°	10070.0	2081.4	123.7	76.8	44.8	32.0	21.4	21.4	10.7	2.1	0.0
67.5°	8813.9	1541.9	98.1	51.2	25.6	15.0	10.7	6.4	0.0	0.0	0.0
70°	7174.0	1113.2	76.8	32.0	15.0	10.7	4.3	2.1	0.0	0.0	0.0
72.5°	4555.2	637.6	59.7	19.2	10.7	4.3	0.0	0.0	0.0	0.0	0.0
75°	1761.5	249.5	40.5	12.8	4.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	499.0	117.3	23.5	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	130.1	51.2	12.8	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	61.8	21.4	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	36.2	8.5	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.1	2.1	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)