

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: P651506

Luminaire Tested: **GALN-SA7D-840-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651506
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-SA7D-840-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 37086.4 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

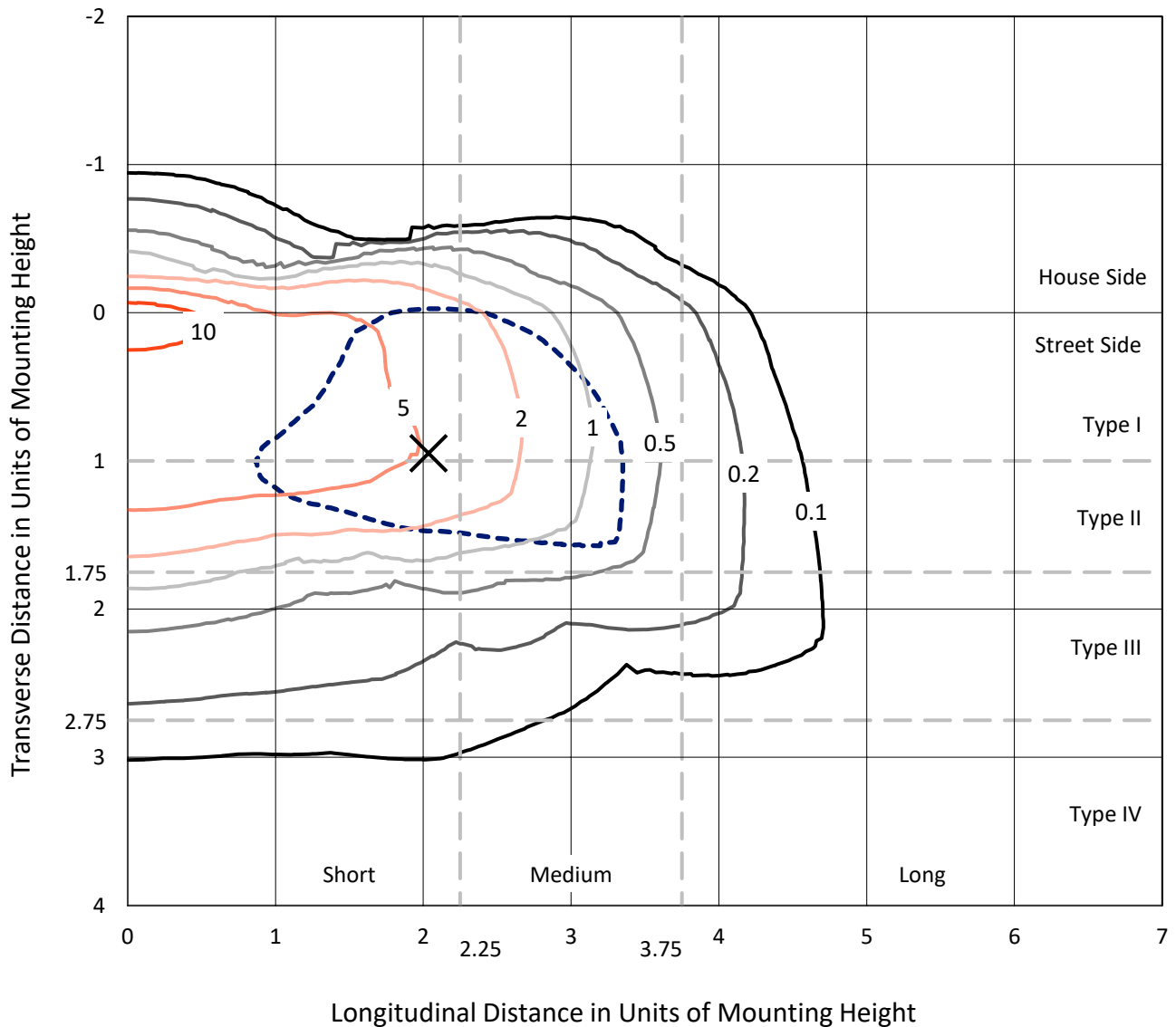
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

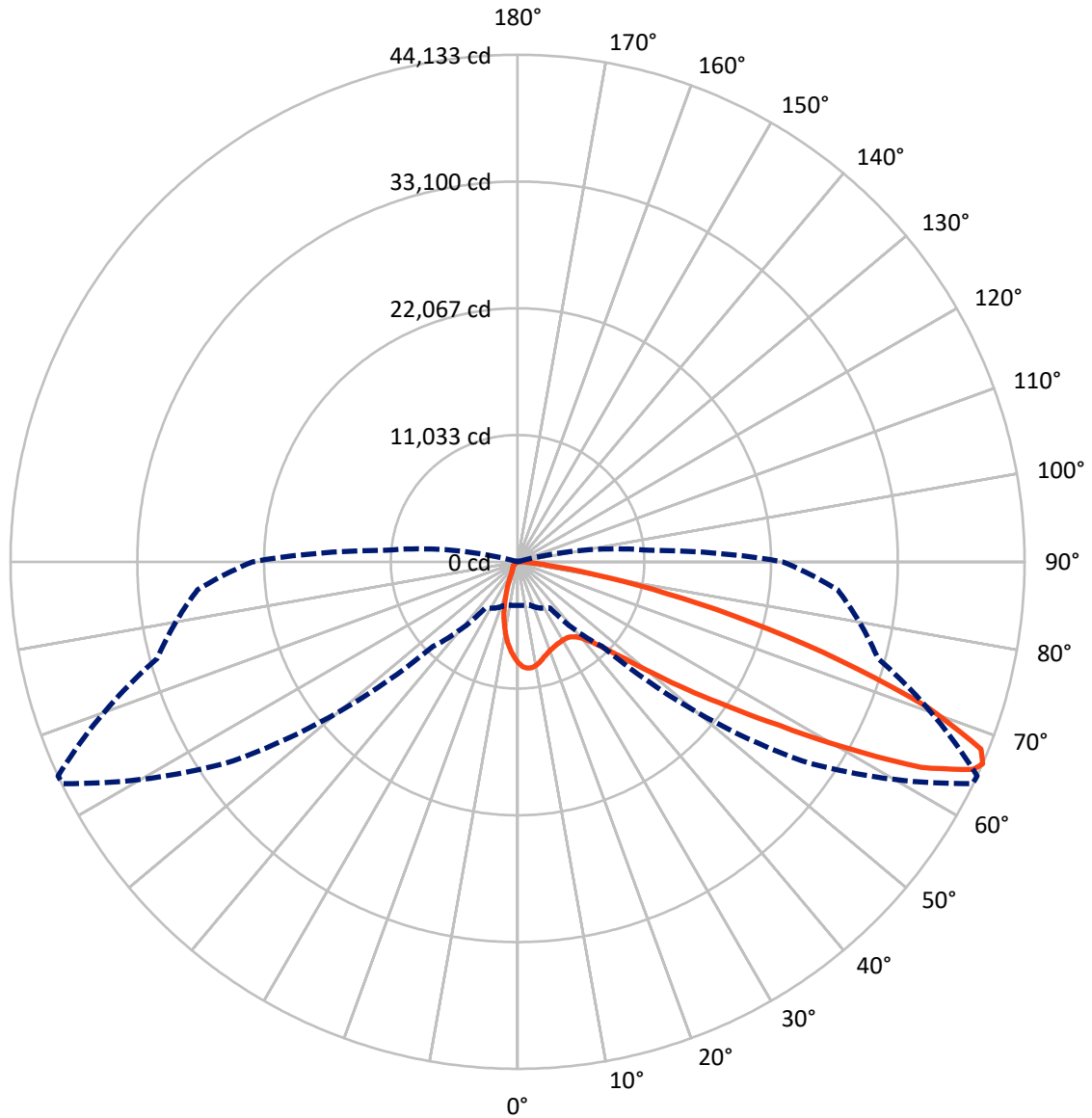
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 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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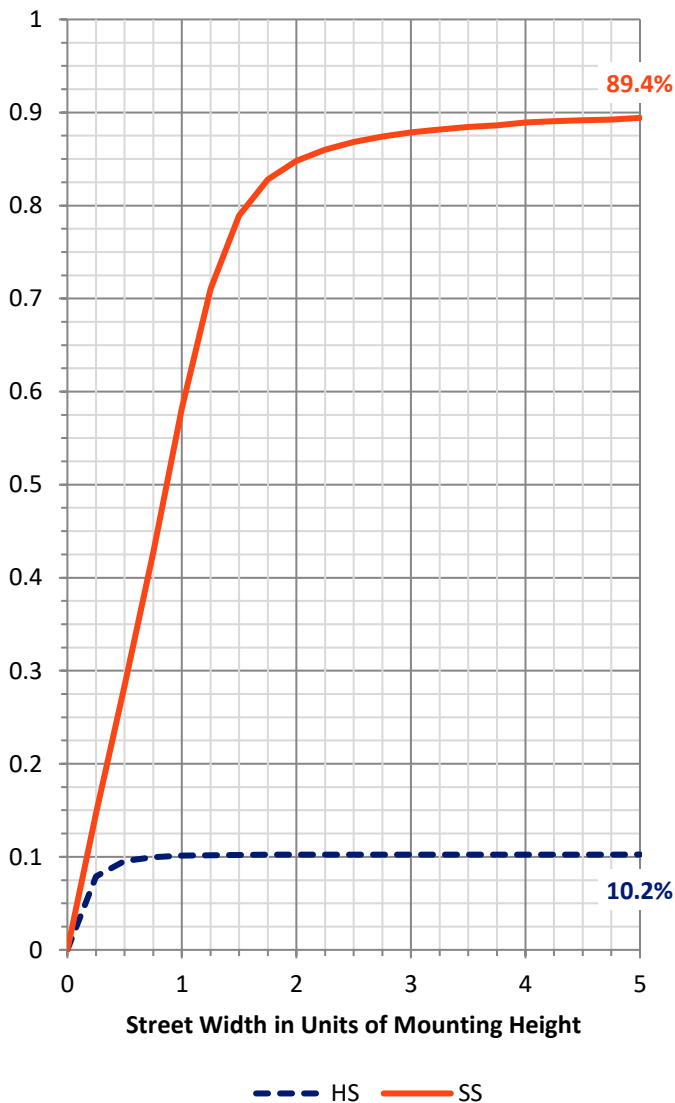
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3835.3	0.0	3835.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	33251.2	0.0	33251.2
	% Fixture	89.7	0.0	89.7
Total	Lumens	37086.4	0.0	37086.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	719.3	1.9
10°-20°	1567.2	4.2
20°-30°	2245.0	6.1
30°-40°	3279.0	8.8
40°-50°	5498.2	14.8
50°-60°	9175.7	24.7
60°-70°	9739.7	26.3
70°-80°	4411.1	11.9
80°-90°	451.3	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°	37086.4	100.0
0°-180°	37086.4	100.0

Coefficient of Utilization

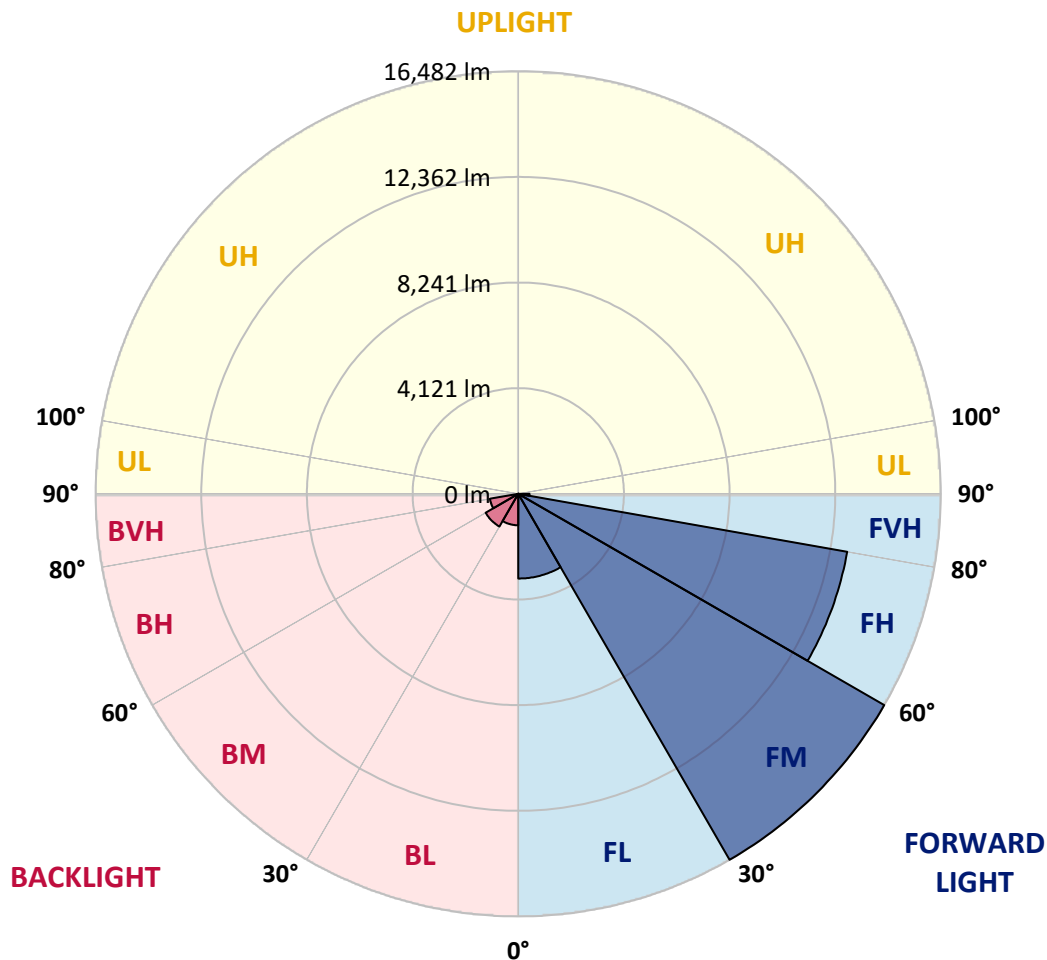


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3304.5	8.9			
FM (30°-60°)	16482.1	44.4			
FH (60°-80°)	13027.6	35.1			G5
FVH (80°-90°)	437.0	1.2			G3/500
BL (0°-30°)	1226.9	3.3	B3/2500		
BM (30°-60°)	1470.9	4.0	B2/2500		
BH (60°-80°)	1123.2	3.0	B3/2500		G3/2500
BVH (80°-90°)	14.4	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-G5
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	8794.6	8794.6	8794.6	8794.6	8794.6	8794.6	8794.6	8794.6	8794.6	8794.6	8794.6
2.5°	9268.0	9278.0	9290.5	9308.0	9320.6	9283.0	9230.4	9170.3	9157.7	9030.0	8874.7
5°	8772.1	8787.0	8897.3	8957.4	9092.6	9215.3	9293.0	9303.1	9298.0	9177.8	8929.8
7.5°	8065.6	8108.2	8215.9	8321.1	8574.2	8807.1	9082.6	9275.5	9288.0	9255.5	8947.3
10°	7492.0	7519.5	7574.7	7782.6	7993.0	8348.7	8734.5	9097.7	9127.7	9258.0	8932.3
12.5°	7043.6	7083.7	7151.4	7311.7	7564.7	7900.4	8338.7	8827.1	8889.7	9210.4	8889.7
15°	6730.5	6750.6	6818.2	6976.0	7221.5	7532.1	7975.5	8544.1	8599.1	9147.7	8882.2
17.5°	6582.8	6605.3	6652.9	6778.1	6981.1	7269.1	7702.5	8316.1	8386.3	9107.7	8909.8
20°	6622.9	6642.9	6645.4	6710.5	6848.3	7091.2	7502.1	8103.2	8193.4	9082.6	8954.9
22.5°	6850.8	6853.3	6823.2	6793.2	6840.8	7016.1	7379.4	7968.0	8060.6	9077.6	9007.4
25°	7191.5	7199.0	7148.8	7043.6	6948.5	7038.7	7351.8	7880.3	7962.9	9065.1	9040.0
27.5°	7662.4	7659.8	7644.9	7469.5	7199.0	7138.8	7374.3	7832.7	7902.8	9030.0	9052.5
30°	8321.1	8301.1	8268.5	8070.7	7657.4	7381.8	7469.5	7802.6	7867.7	8979.9	9020.0
32.5°	8969.9	9045.0	9040.0	8852.2	8336.2	7815.2	7667.4	7842.7	7890.3	8947.3	8972.4
35°	9726.3	9723.9	9916.7	9846.6	9242.9	8368.7	8005.6	7975.5	8013.0	8969.9	8949.8
37.5°	10427.7	10492.8	10793.4	10866.1	10315.0	9150.2	8483.9	8261.1	8273.5	9122.7	9005.0
40°	11301.9	11427.2	11875.5	12118.5	11632.5	10310.0	9190.4	8784.5	8787.0	9498.4	9212.9
42.5°	12429.1	12627.0	13045.3	13451.1	13190.6	11682.7	10249.9	9613.6	9608.7	10159.7	9688.8
45°	13799.3	13937.1	14413.0	15056.7	14891.4	13598.9	11792.8	10898.6	10833.5	11244.3	10532.9
47.5°	14981.6	15169.5	15652.9	16386.8	17138.2	15938.4	13636.5	12664.5	12622.0	12970.2	11980.7
50°	15497.5	15662.9	16171.3	17200.9	19021.9	19009.4	16381.8	15242.0	15169.5	15357.2	14220.0
52.5°	14931.5	15086.8	15600.3	16882.7	19908.6	22751.7	20359.5	18475.8	18388.1	18147.7	16895.3
55°	12992.7	13120.4	13879.4	15352.3	19568.0	25246.5	25840.1	22471.1	22130.4	21196.1	19923.6
57.5°	10345.1	10280.0	10750.8	12461.7	17569.1	26083.1	31466.0	27448.2	26839.6	23831.2	22486.2
60°	7168.9	7369.3	7559.7	8686.9	13210.6	24632.8	34965.3	33705.3	32903.8	26423.7	24940.9
62.5°	5270.2	5403.0	5528.2	6049.2	8306.1	19668.1	35584.1	40132.9	39421.5	29176.6	27282.9
65°	4168.1	4178.1	4228.2	4741.7	5473.1	12789.8	32610.8	43757.4	43574.5	31826.7	28232.3
66°	3797.4	3799.9	3877.5	4428.6	4912.0	10415.2	30228.7	44032.9	44133.1	32462.9	27954.3
67.5°	3318.9	3308.9	3421.6	3980.2	4473.7	7509.5	25965.4	42915.7	43509.4	32951.4	26954.8
70°	2572.5	2560.0	2697.8	3338.9	4120.5	5009.8	17258.5	36849.0	37805.8	31951.9	23848.7
72.5°	1713.3	1723.4	1958.8	2635.1	3932.6	4411.0	10382.6	28031.9	29384.5	26386.2	18761.4
75°	999.4	1016.9	1285.0	1958.8	3414.1	4205.7	5876.4	19988.8	20852.9	18220.3	11687.6
77.5°	523.5	531.0	718.9	1292.5	2617.6	3905.1	3915.1	12769.7	13175.5	8854.6	4626.5
80°	278.0	270.5	385.8	779.0	1801.0	3429.2	3176.1	6760.6	7028.7	2630.1	1169.7
82.5°	105.2	115.2	205.4	511.0	1064.5	2462.3	2735.3	2988.3	2895.6	578.6	491.0
85°	20.0	25.1	87.6	303.1	536.1	1029.5	2016.4	1465.4	1357.6	217.9	283.1
87.5°	2.5	5.0	25.1	72.7	77.6	348.2	596.2	405.8	350.7	80.1	117.7
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°	8794.6	8794.6	8794.6	8794.6	8794.6	8794.6	8794.6	8794.6	8794.6	8794.6	8794.6
2.5°	8799.6	8731.9	8506.5	8283.6	8055.6	7850.2	7710.0	7482.0	7424.4	7341.8	7294.2
5°	8782.1	8624.2	8190.9	7717.4	7276.6	6800.7	6437.5	6086.8	5898.9	5803.7	5768.7
7.5°	8731.9	8481.5	7805.2	7063.7	6357.4	5646.0	5027.2	4556.4	4253.3	4045.4	3905.1
10°	8631.8	8286.0	7356.7	6337.3	5270.2	4330.9	3546.9	2950.7	2489.9	2344.5	2349.6
12.5°	8529.0	8068.1	6855.8	5530.8	4208.2	3023.4	2191.7	1720.9	1500.4	1427.8	1412.7
15°	8433.9	7860.2	6364.9	4749.2	3133.6	1958.8	1412.7	1247.5	1187.3	1174.8	1172.3
17.5°	8383.8	7667.4	5841.3	3855.0	2186.8	1330.0	1132.2	1087.1	1069.6	1057.1	1052.0
20°	8341.2	7499.5	5340.3	3018.3	1495.4	1089.6	1014.5	971.9	941.8	929.3	921.8
22.5°	8311.1	7326.7	4821.9	2337.1	1144.7	966.9	899.3	844.1	801.6	786.5	776.5
25°	8266.0	7136.3	4298.4	1708.3	964.4	859.2	781.5	716.4	661.3	633.7	628.7
27.5°	8200.9	6920.9	3724.7	1264.9	861.7	764.0	668.8	588.6	533.5	503.5	505.9
30°	8095.7	6695.5	3151.1	1004.4	779.0	666.3	563.6	485.9	433.4	410.8	408.3
32.5°	7970.5	6422.5	2625.1	861.7	703.8	578.6	470.9	403.3	363.2	345.7	343.1
35°	7852.8	6147.0	2089.0	774.0	626.2	498.5	395.8	338.2	308.1	293.1	295.6
37.5°	7787.6	5901.5	1628.2	703.8	563.6	428.3	340.7	290.6	263.0	250.4	248.0
40°	7830.2	5701.1	1295.0	641.3	493.5	368.2	293.1	250.4	222.9	205.4	205.4
42.5°	8030.5	5613.4	1044.5	581.1	428.3	318.2	255.5	215.4	185.4	167.9	170.3
45°	8641.8	5706.1	874.2	526.0	368.2	275.5	220.4	177.9	150.3	137.8	135.2
47.5°	9656.2	6054.3	756.5	468.4	315.6	235.5	185.4	147.8	120.3	110.3	107.7
50°	11429.7	6773.2	668.8	410.8	268.0	200.4	152.8	117.7	95.2	85.2	85.2
52.5°	13869.4	8341.2	606.2	345.7	225.5	170.3	125.2	95.2	75.2	67.6	65.1
55°	16419.3	9994.4	573.6	290.6	187.9	140.3	100.2	75.2	57.6	50.1	47.6
57.5°	18871.6	11291.9	536.1	235.5	150.3	107.7	77.6	57.6	40.1	35.1	32.5
60°	21223.6	12341.4	455.9	187.9	117.7	77.6	57.6	40.1	27.6	22.5	22.5
62.5°	23327.7	12952.7	358.2	150.3	90.2	55.1	37.6	30.0	20.0	15.1	15.1
65°	23573.2	12158.6	270.5	115.2	65.1	35.1	22.5	22.5	15.1	10.0	10.0
66°	23079.7	11484.8	238.0	105.2	57.6	30.0	20.0	17.5	12.5	7.5	7.5
67.5°	21977.6	10335.0	205.4	90.2	47.6	22.5	15.1	15.1	10.0	5.0	5.0
70°	18989.4	8441.4	162.8	67.6	35.1	17.5	10.0	10.0	7.5	5.0	5.0
72.5°	14473.1	6302.2	132.8	50.1	25.1	12.5	7.5	7.5	7.5	5.0	5.0
75°	8729.4	3394.1	102.7	37.6	22.5	10.0	5.0	7.5	10.0	7.5	5.0
77.5°	3216.2	1154.8	80.1	30.0	17.5	10.0	5.0	5.0	10.0	7.5	7.5
80°	789.0	300.6	57.6	25.1	17.5	10.0	5.0	5.0	10.0	10.0	10.0
82.5°	365.8	127.7	40.1	22.5	17.5	10.0	5.0	5.0	7.5	10.0	10.0
85°	210.4	60.1	32.5	25.1	17.5	10.0	5.0	5.0	7.5	10.0	10.0
87.5°	85.2	30.0	30.0	25.1	20.0	12.5	5.0	5.0	5.0	7.5	7.5
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)