

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: P651616

Luminaire Tested: **GALN-SA9D-840-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651616
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-SA9D-840-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 48270.9 lumens
Efficiency: N/A
Efficacy: 87.4 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

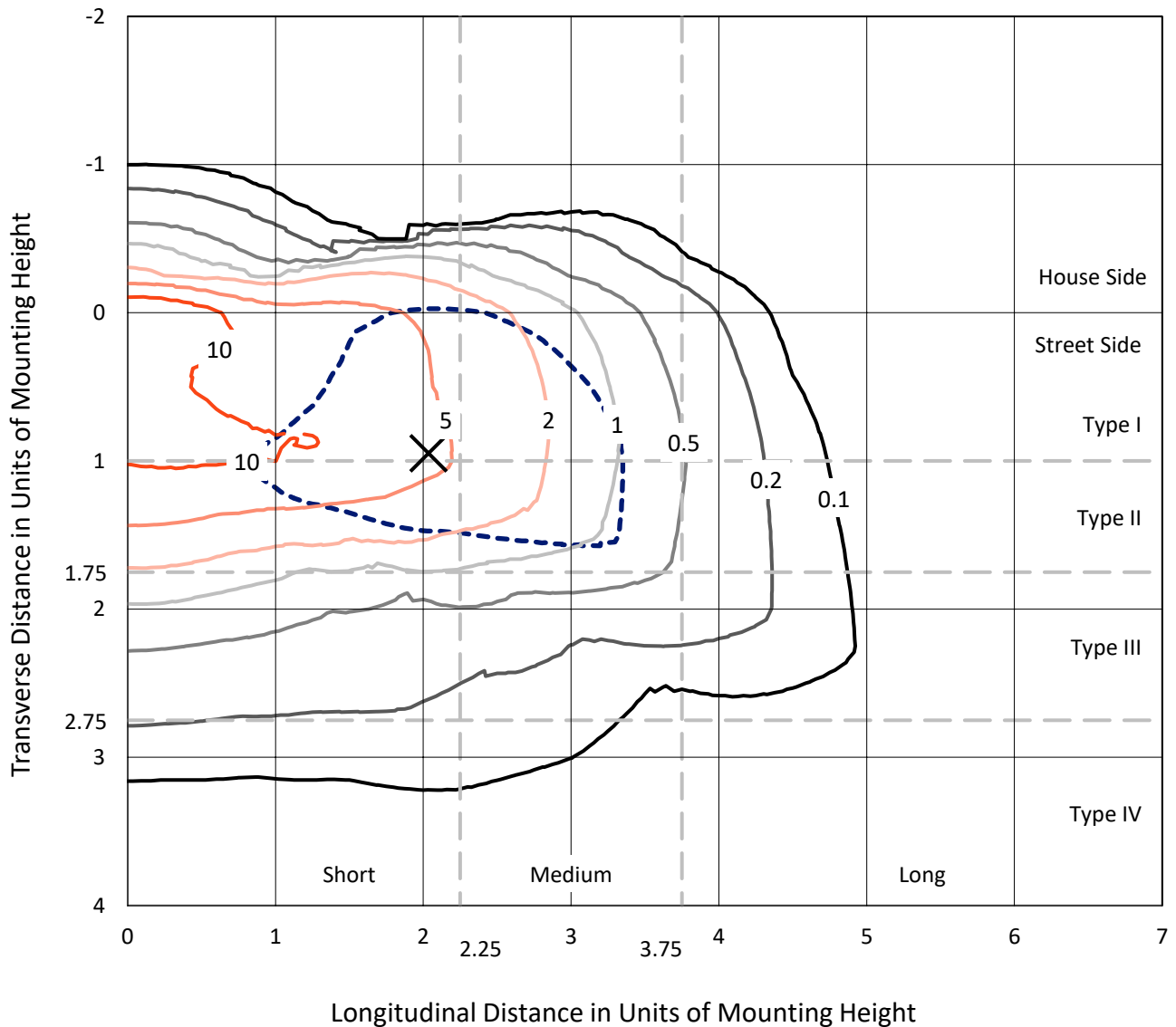
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

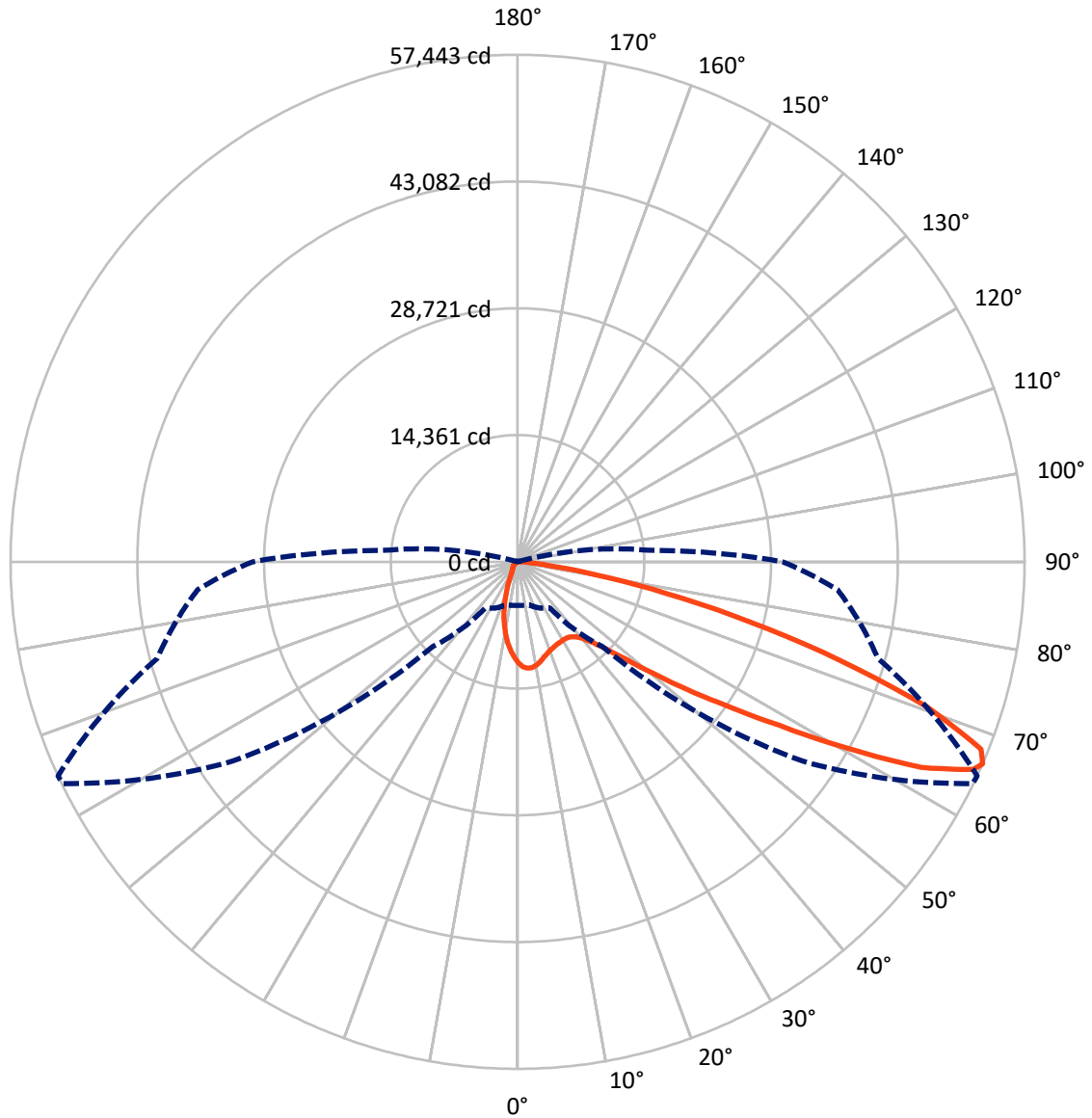
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.3 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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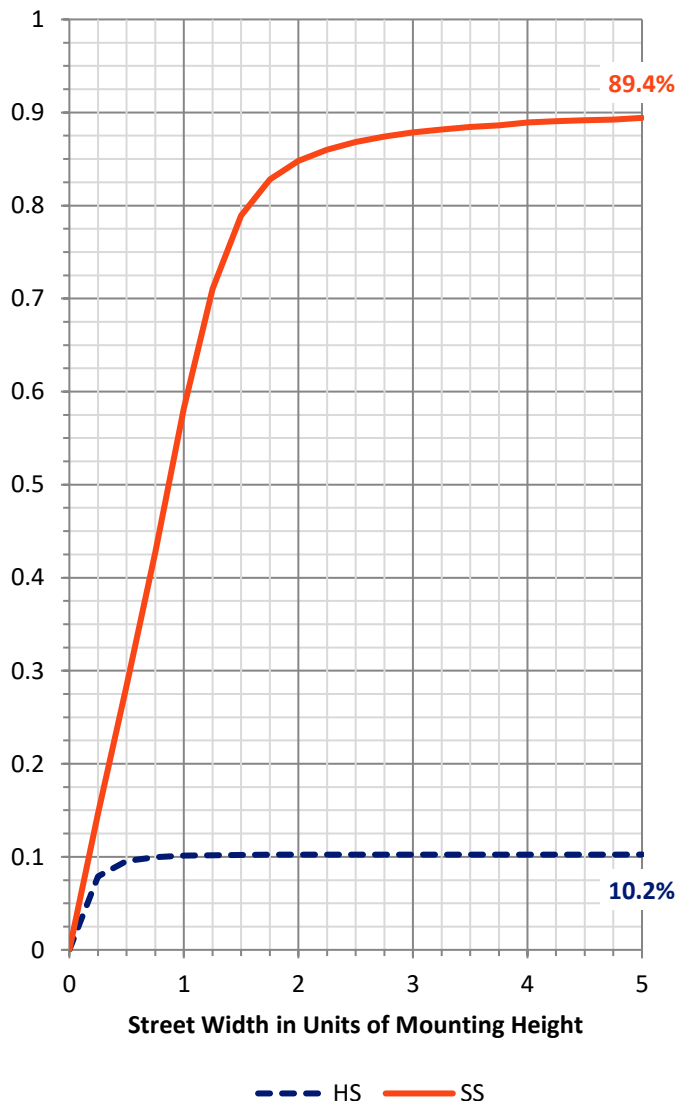
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4991.9	0.0	4991.9
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	43279.0	0.0	43279.0
	% Fixture	89.7	0.0	89.7
Total	Lumens	48270.9	0.0	48270.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	936.2	1.9
10°-20°	2039.8	4.2
20°-30°	2922.0	6.1
30°-40°	4267.8	8.8
40°-50°	7156.4	14.8
50°-60°	11942.9	24.7
60°-70°	12677.0	26.3
70°-80°	5741.4	11.9
80°-90°	587.5	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°	48270.9	100.0
0°-180°	48270.9	100.0

Coefficient of Utilization

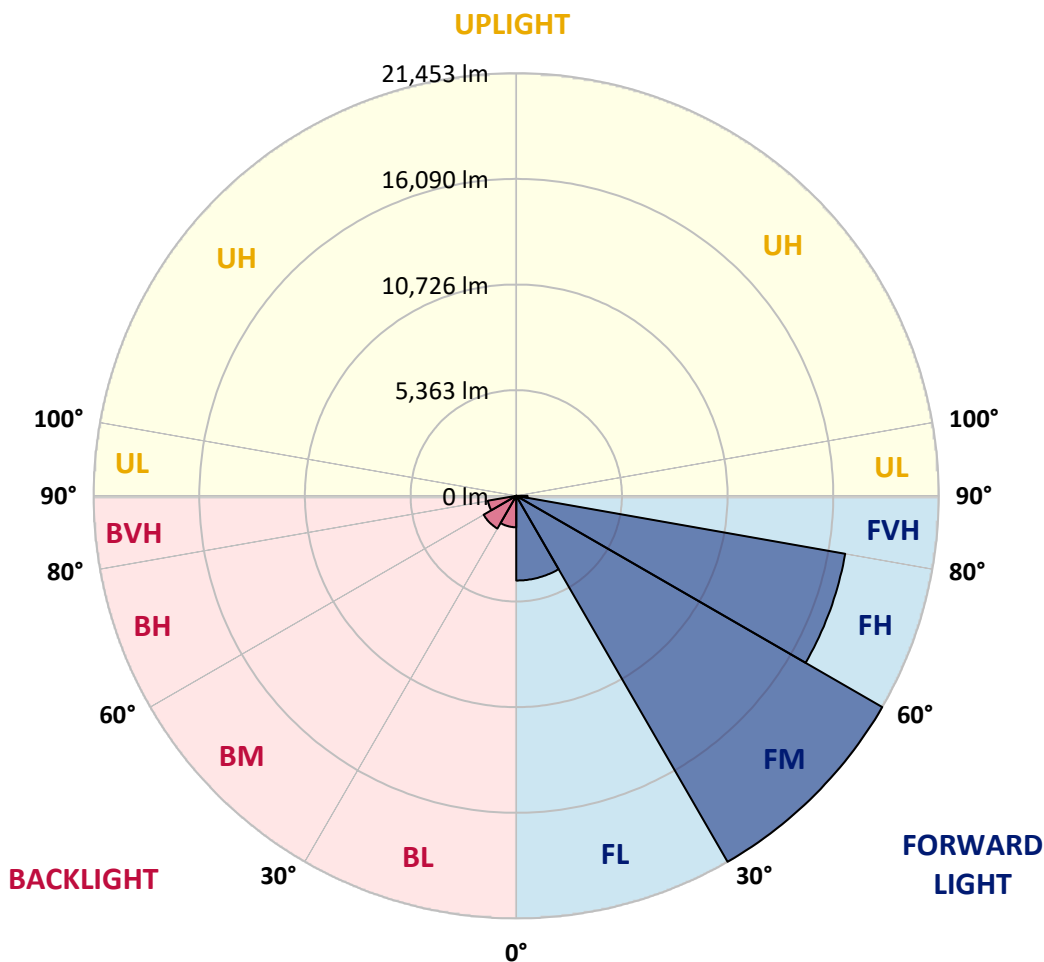


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4301.1	8.9			
FM (30°-60°)	21452.7	44.4			
FH (60°-80°)	16956.5	35.1			G5
FVH (80°-90°)	568.7	1.2			G4/750
BL (0°-30°)	1596.8	3.3	B3/2500		
BM (30°-60°)	1914.4	4.0	B2/2500		
BH (60°-80°)	1461.9	3.0	B3/2500		G3/2500
BVH (80°-90°)	18.7	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°	11446.8	11446.8	11446.8	11446.8	11446.8	11446.8	11446.8	11446.8	11446.8	11446.8	11446.8
2.5°	12063.0	12076.0	12092.3	12115.2	12131.4	12082.6	12014.1	11935.8	11919.6	11753.3	11551.1
5°	11417.5	11437.0	11580.5	11658.7	11834.8	11994.5	12095.6	12108.6	12102.2	11945.6	11622.9
7.5°	10498.0	10553.5	10693.7	10830.7	11159.9	11463.1	11821.8	12072.8	12089.0	12046.7	11645.7
10°	9751.5	9787.3	9859.0	10129.7	10403.5	10866.5	11368.6	11841.3	11880.4	12049.9	11626.2
12.5°	9167.9	9220.1	9308.1	9516.8	9846.0	10282.9	10853.4	11489.2	11570.7	11988.0	11570.7
15°	8760.4	8786.4	8874.5	9079.9	9399.4	9803.6	10380.7	11120.8	11192.5	11906.5	11560.9
17.5°	8568.0	8597.3	8659.3	8822.3	9086.3	9461.3	10025.3	10824.1	10915.4	11854.3	11596.8
20°	8620.2	8646.2	8649.5	8734.3	8913.6	9229.8	9764.5	10547.0	10664.3	11821.8	11655.5
22.5°	8916.9	8920.1	8881.0	8841.9	8903.8	9132.0	9604.7	10370.9	10491.6	11815.2	11724.0
25°	9360.2	9370.0	9304.8	9167.9	9043.9	9161.3	9568.9	10256.8	10364.4	11798.9	11766.3
27.5°	9973.2	9969.9	9950.4	9722.1	9370.0	9291.8	9598.2	10194.9	10286.2	11753.3	11782.6
30°	10830.7	10804.5	10762.1	10504.6	9966.6	9608.0	9722.1	10155.7	10240.5	11688.0	11740.2
32.5°	11675.0	11772.8	11766.3	11521.8	10850.2	10172.1	9979.6	10207.9	10269.9	11645.7	11678.3
35°	12659.7	12656.4	12907.4	12816.1	12030.4	10892.5	10419.8	10380.7	10429.6	11675.0	11648.9
37.5°	13572.5	13657.3	14048.5	14143.0	13425.8	11909.7	11042.5	10752.4	10768.7	11873.9	11720.7
40°	14710.4	14873.3	15456.9	15773.2	15140.7	13419.2	11962.0	11433.7	11437.0	12363.0	11991.2
42.5°	16177.5	16435.0	16979.5	17507.7	17168.6	15205.9	13341.0	12512.9	12506.4	13223.6	12610.7
45°	17960.8	18140.1	18759.6	19597.5	19382.3	17700.0	15349.3	14185.4	14100.6	14635.3	13709.4
47.5°	19499.7	19744.2	20373.4	21328.7	22306.8	20745.1	17748.9	16483.9	16428.5	16881.6	15593.9
50°	20171.3	20386.4	21048.3	22388.3	24758.5	24742.2	21322.1	19838.8	19744.2	19988.7	18508.6
52.5°	19434.5	19636.6	20304.9	21974.2	25912.6	29613.0	26499.5	24047.7	23933.6	23620.7	21990.6
55°	16911.0	17077.3	18065.2	19982.2	25469.3	32860.2	33632.9	29247.9	28804.5	27588.4	25932.2
57.5°	13464.9	13380.1	13993.1	16219.9	22867.5	33949.2	40955.5	35726.0	34933.8	31018.2	29267.5
60°	9330.9	9591.7	9839.5	11306.6	17194.7	32061.5	45510.1	43870.2	42826.9	34392.6	32462.5
62.5°	6859.6	7032.4	7195.4	7873.5	10811.1	25599.6	46315.4	52236.0	51310.1	37975.6	35510.9
65°	5425.1	5438.2	5503.3	6171.7	7123.7	16646.9	42445.4	56953.6	56715.6	41425.0	36746.5
66°	4942.6	4945.8	5046.9	5764.1	6393.4	13556.2	39344.9	57312.3	57442.7	42253.1	36384.6
67.5°	4319.9	4306.8	4453.5	5180.6	5822.8	9774.3	33795.9	55858.2	56630.8	42888.8	35083.7
70°	3348.3	3332.0	3511.3	4346.0	5363.1	6520.5	22463.3	47961.8	49207.2	41588.0	31041.1
72.5°	2230.0	2243.0	2549.5	3429.8	5118.7	5741.3	13513.8	36485.7	38246.2	34343.7	24419.4
75°	1300.9	1323.6	1672.5	2549.5	4443.8	5474.0	7648.6	26016.9	27141.8	23715.2	15212.4
77.5°	681.4	691.2	935.7	1682.3	3407.0	5082.8	5095.8	16620.9	17149.0	11525.1	6021.7
80°	361.9	352.1	502.1	1013.9	2344.1	4463.3	4134.0	8799.5	9148.3	3423.3	1522.5
82.5°	136.9	150.0	267.4	665.1	1385.6	3204.9	3560.2	3889.5	3768.9	753.1	639.0
85°	26.1	32.6	114.1	394.5	697.7	1340.0	2624.5	1907.2	1767.0	283.7	368.4
87.5°	3.3	6.6	32.6	94.5	101.1	453.2	775.9	528.1	456.4	104.4	153.2
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°	11446.8	11446.8	11446.8	11446.8	11446.8	11446.8	11446.8	11446.8	11446.8	11446.8	11446.8
2.5°	11453.3	11365.3	11071.8	10781.7	10485.0	10217.6	10035.1	9738.4	9663.4	9555.9	9493.9
5°	11430.5	11225.1	10661.1	10044.9	9471.1	8851.6	8378.9	7922.5	7677.9	7554.0	7508.4
7.5°	11365.3	11039.3	10159.0	9194.0	8274.6	7348.7	6543.4	5930.4	5536.0	5265.3	5082.8
10°	11234.9	10785.0	9575.4	8248.4	6859.6	5637.0	4616.5	3840.6	3240.7	3051.7	3058.1
12.5°	11101.2	10501.3	8923.3	7198.7	5477.3	3935.1	2852.8	2239.8	1952.9	1858.4	1838.8
15°	10977.3	10230.8	8284.4	6181.4	4078.6	2549.5	1838.8	1623.6	1545.3	1529.1	1525.8
17.5°	10912.1	9979.6	7603.0	5017.6	2846.2	1731.2	1473.6	1415.0	1392.1	1375.8	1369.3
20°	10856.7	9761.2	6950.9	3928.6	1946.4	1418.2	1320.4	1264.9	1225.8	1209.5	1199.8
22.5°	10817.6	9536.3	6276.0	3041.8	1489.9	1258.5	1170.4	1098.7	1043.3	1023.7	1010.7
25°	10758.9	9288.5	5594.6	2223.5	1255.2	1118.3	1017.2	932.4	860.7	824.9	818.3
27.5°	10674.1	9008.1	4848.0	1646.4	1121.6	994.4	870.5	766.2	694.4	655.3	658.6
30°	10537.2	8714.7	4101.4	1307.3	1013.9	867.2	733.5	632.5	564.1	534.7	531.4
32.5°	10374.2	8359.4	3416.7	1121.6	916.1	753.1	612.9	524.9	472.7	449.9	446.7
35°	10220.9	8000.7	2719.0	1007.4	815.1	648.8	515.1	440.1	401.0	381.5	384.7
37.5°	10136.2	7681.2	2119.2	916.1	733.5	557.5	443.4	378.2	342.3	326.1	322.8
40°	10191.6	7420.4	1685.5	834.6	642.3	479.3	381.5	326.1	290.1	267.4	267.4
42.5°	10452.5	7306.3	1359.6	756.4	557.5	414.0	332.5	280.4	241.3	218.4	221.7
45°	11248.0	7426.9	1137.9	684.7	479.3	358.6	286.9	231.4	195.6	179.3	176.0
47.5°	12568.3	7880.1	984.6	609.6	410.8	306.5	241.3	192.3	156.5	143.5	140.2
50°	14876.6	8815.8	870.5	534.7	348.8	260.8	198.9	153.2	123.9	110.8	110.8
52.5°	18052.1	10856.7	789.0	449.9	293.4	221.7	163.0	123.9	97.8	88.1	84.8
55°	21371.1	13008.5	746.6	378.2	244.5	182.6	130.4	97.8	75.0	65.2	62.0
57.5°	24562.8	14697.3	697.7	306.5	195.6	140.2	101.1	75.0	52.1	45.7	42.4
60°	27624.2	16063.4	593.4	244.5	153.2	101.1	75.0	52.1	35.8	29.4	29.4
62.5°	30362.9	16858.9	466.3	195.6	117.4	71.7	48.9	39.1	26.1	19.6	19.6
65°	30682.4	15825.3	352.1	150.0	84.8	45.7	29.4	29.4	19.6	13.0	13.0
66°	30040.1	14948.4	309.7	136.9	75.0	39.1	26.1	22.8	16.3	9.8	9.8
67.5°	28605.6	13451.9	267.4	117.4	62.0	29.4	19.6	19.6	13.0	6.6	6.6
70°	24716.1	10987.1	211.9	88.1	45.7	22.8	13.0	13.0	9.8	6.6	6.6
72.5°	18837.8	8202.9	172.8	65.2	32.6	16.3	9.8	9.8	9.8	6.6	6.6
75°	11362.1	4417.7	133.6	48.9	29.4	13.0	6.6	9.8	13.0	9.8	6.6
77.5°	4186.2	1503.0	104.4	39.1	22.8	13.0	6.6	6.6	13.0	9.8	9.8
80°	1026.9	391.2	75.0	32.6	22.8	13.0	6.6	6.6	13.0	13.0	13.0
82.5°	476.0	166.3	52.1	29.4	22.8	13.0	6.6	6.6	9.8	13.0	13.0
85°	273.8	78.2	42.4	32.6	22.8	13.0	6.6	6.6	9.8	13.0	13.0
87.5°	110.8	39.1	39.1	32.6	26.1	16.3	6.6	6.6	6.6	9.8	9.8
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)