

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: P647675

Luminaire Tested: **GALN-SA9D-835-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647675
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-835-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41050.3 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G5

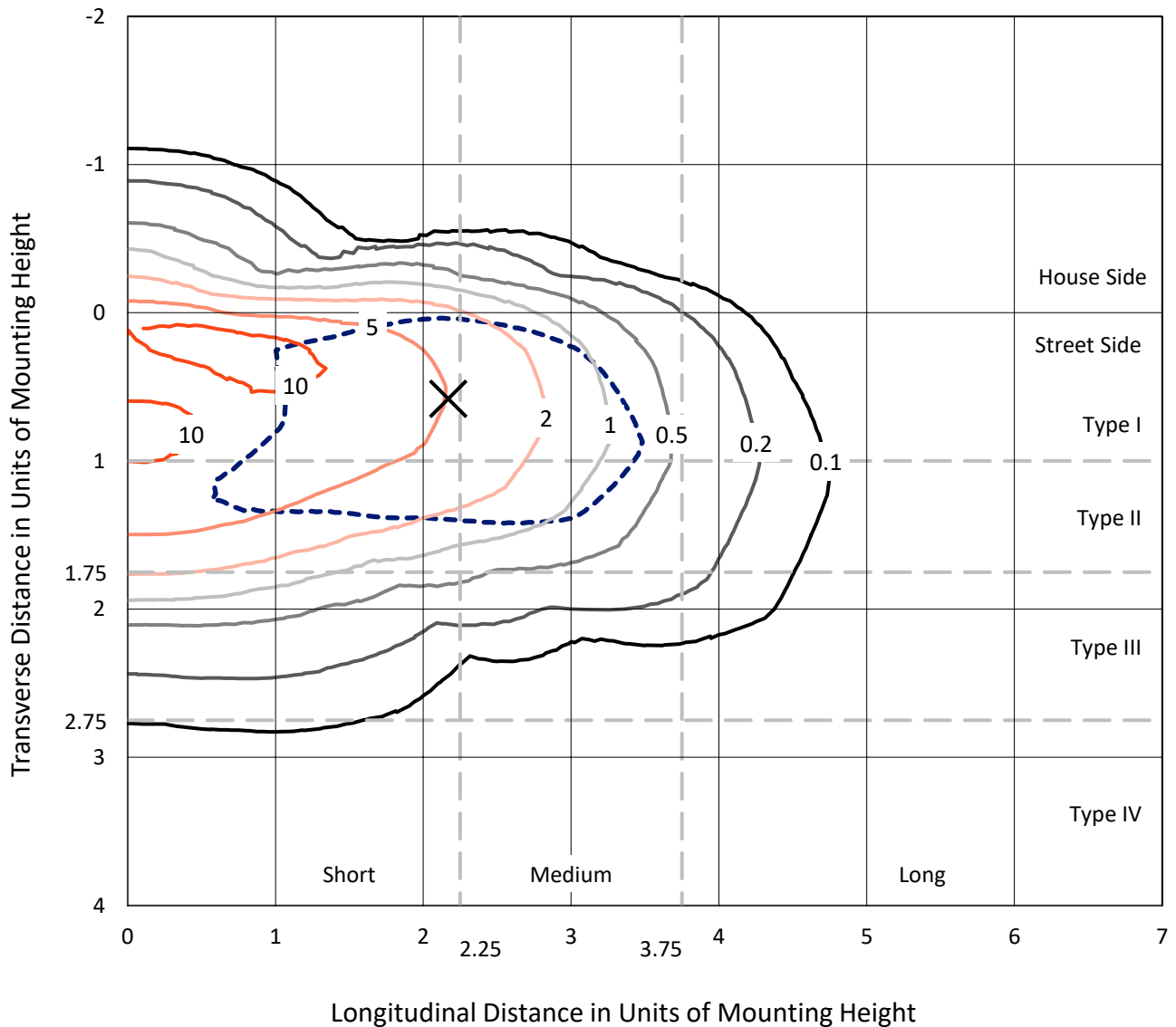
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

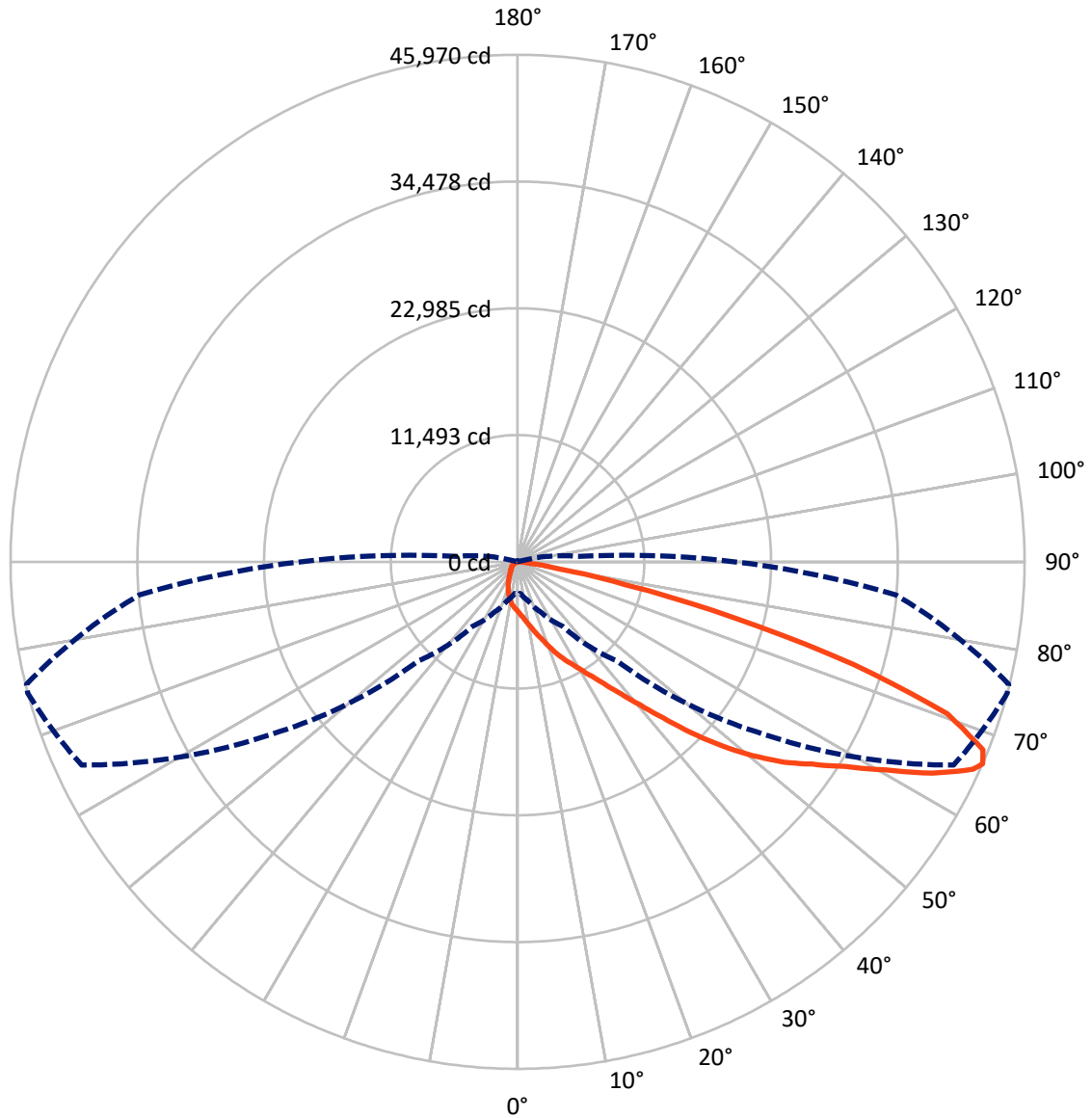
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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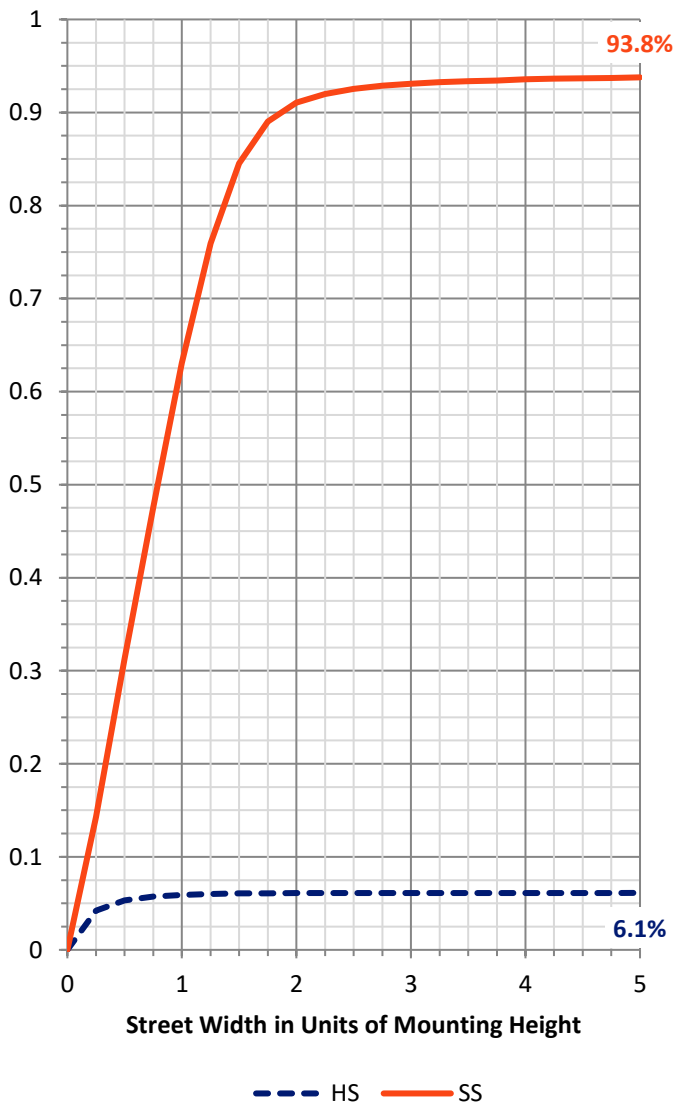
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2534.3	0.0	2534.3
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	38516.1	0.0	38516.1
	% Fixture	93.8	0.0	93.8
Total	Lumens	41050.3	0.0	41050.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	433.0	1.1
10°-20°	1274.3	3.1
20°-30°	2200.5	5.4
30°-40°	3969.2	9.7
40°-50°	7170.5	17.5
50°-60°	11178.9	27.2
60°-70°	10619.5	25.9
70°-80°	3979.9	9.7
80°-90°	224.6	0.5
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°	41050.3	100.0
0°-180°	41050.3	100.0

Coefficient of Utilization

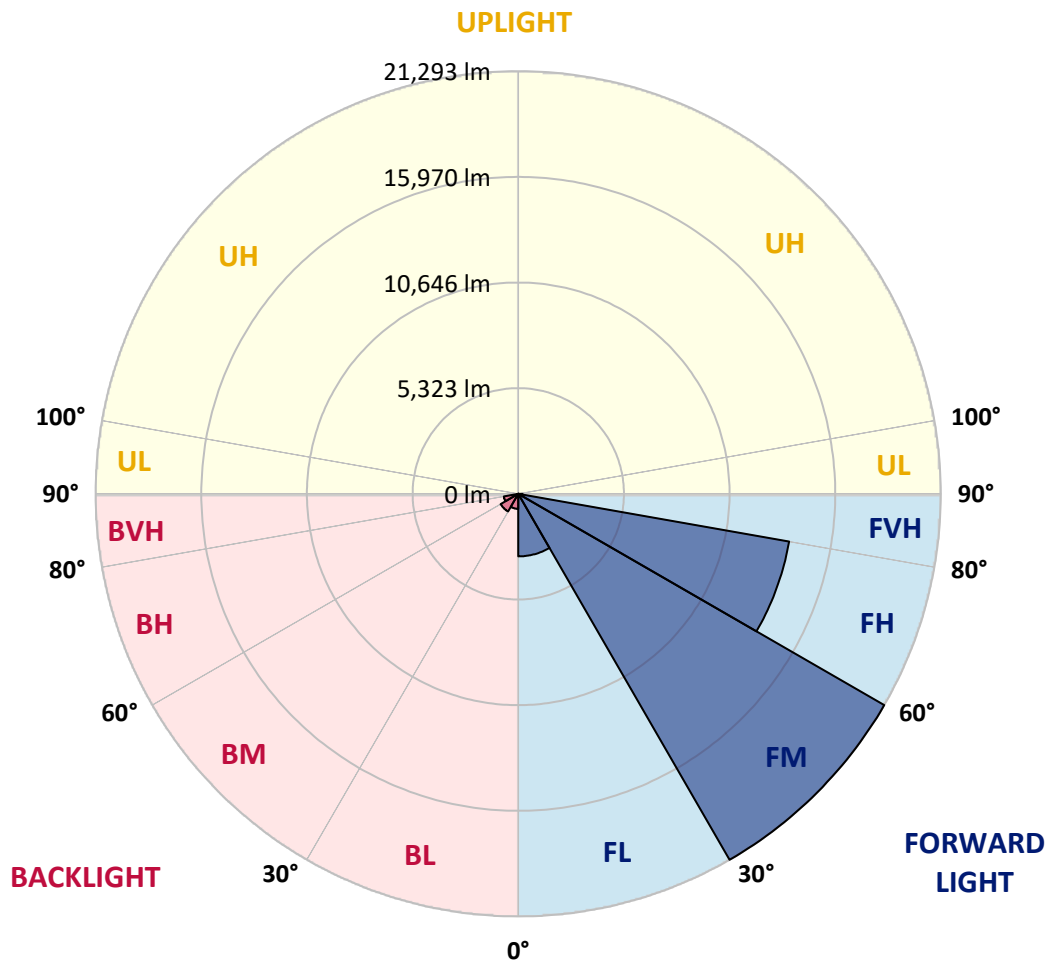


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3151.0	7.7			
FM (30°-60°)	21292.8	51.9			
FH (60°-80°)	13859.4	33.8			G5
FVH (80°-90°)	213.0	0.5			G2/225
BL (0°-30°)	756.8	1.8	B2/1000		
BM (30°-60°)	1025.8	2.5	B2/2500		
BH (60°-80°)	740.0	1.8	B2/1000		G2/1000
BVH (80°-90°)	11.6	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4489.3	4489.3	4489.3	4489.3	4489.3	4489.3	4489.3	4489.3	4489.3	4489.3	4489.3
2.5°	5363.5	5296.7	5317.9	5287.5	5217.8	5114.6	5023.5	4893.0	4762.4	4741.2	4595.5
5°	6070.7	6052.4	6028.2	5940.2	5891.6	5733.8	5545.5	5321.0	5050.8	5002.2	4738.2
7.5°	6553.3	6544.2	6556.3	6510.8	6468.3	6325.6	6125.3	5818.7	5399.9	5372.6	4932.4
10°	6711.1	6735.4	6780.9	6853.8	6920.5	6875.1	6723.2	6340.8	5852.1	5773.2	5154.0
12.5°	6620.0	6647.4	6756.7	6950.9	7166.4	7290.9	7230.1	6950.9	6331.7	6268.0	5402.9
15°	6386.4	6419.7	6574.5	6875.1	7260.5	7612.6	7764.4	7564.1	6890.2	6787.0	5703.4
17.5°	6040.3	6088.9	6310.4	6708.1	7236.3	7843.3	8271.3	8204.5	7485.2	7388.0	6031.2
20°	5779.2	5815.7	6003.9	6459.2	7133.1	7970.8	8753.9	8942.1	8219.7	8052.8	6416.7
22.5°	5952.3	5964.4	6028.2	6301.3	6947.9	8004.2	9178.9	9710.1	8999.8	8851.0	6817.3
25°	6799.2	6677.7	6614.0	6553.3	6908.4	7973.8	9564.3	10511.4	9776.9	9619.0	7215.0
27.5°	8134.7	8080.1	7758.4	7327.3	7245.3	8013.3	9819.3	11270.2	10508.3	10338.3	7603.5
30°	9588.6	9494.5	9297.3	8665.9	8031.5	8292.5	10004.5	12007.8	11373.4	11148.8	7958.6
32.5°	10924.2	10984.9	10690.5	10040.9	9306.3	8887.4	10244.2	12812.2	12365.9	12086.7	8371.4
35°	12481.3	12602.7	12150.4	11528.2	10669.2	9962.0	10711.7	13719.7	13625.6	13273.5	9008.9
37.5°	14062.7	14135.6	13859.3	12985.2	12211.1	11327.9	11591.9	14839.7	15176.7	14876.1	9770.7
40°	15392.2	15492.4	15289.0	14512.0	13686.3	12909.2	12869.9	16060.0	17022.2	16712.6	10905.9
42.5°	16409.0	16484.9	16491.0	15941.6	15198.0	14845.8	14499.8	17617.1	19335.1	18976.9	12223.3
45°	17693.0	17802.2	17738.5	17365.1	16809.7	16745.9	16566.9	19499.0	22103.3	21651.0	13932.2
47.5°	19678.0	19750.9	19593.1	19153.0	18588.4	18688.6	18582.3	21608.5	24926.2	24537.7	15701.8
50°	21056.1	21177.6	21402.1	21578.2	21168.4	20798.1	20482.4	23578.5	27606.4	27257.3	17510.9
52.5°	21040.9	21241.3	21951.6	22837.8	23733.3	23621.0	22713.4	25754.8	30165.2	29734.1	19210.7
55°	19623.5	20012.0	21056.1	22628.4	25108.3	26343.6	25930.8	28274.1	32374.9	32083.5	21180.5
57.5°	16697.4	16934.1	18385.0	20582.6	24340.3	27624.6	29658.2	31688.9	35024.8	34888.1	24240.2
60°	11230.7	11337.0	13203.7	15920.3	20722.3	26346.7	32390.0	35820.0	38287.7	38221.0	27812.8
62.5°	6434.9	6480.4	7834.2	10125.9	14745.7	22327.9	32620.7	40916.3	42200.3	42236.7	31946.9
65°	3463.3	3487.6	4580.3	5943.2	8972.5	15914.2	29333.5	43708.9	45363.1	45432.9	34508.7
66°	2989.8	2874.5	3645.4	5066.0	7139.1	12666.4	27254.3	43608.6	45970.2	45894.3	34417.6
67.5°	2273.4	2376.6	2910.9	3894.3	5290.6	9005.8	22500.9	41669.1	45508.7	45272.0	33018.4
70°	1626.9	1669.4	2073.1	2777.3	3603.0	4941.5	14378.4	34608.9	41362.5	41043.8	28765.9
72.5°	1050.2	1095.7	1469.1	2009.4	2604.3	2698.4	8049.7	25005.1	31889.2	31843.7	21663.2
75°	749.7	792.2	971.3	1438.8	1957.8	1669.4	3876.1	16852.2	20273.0	20136.4	13401.0
77.5°	543.3	564.5	649.6	940.9	1399.3	1196.0	1796.9	8999.8	10092.5	10569.0	5921.9
80°	312.7	330.8	452.3	573.7	947.0	816.5	859.0	3612.1	3724.3	3545.3	1851.6
82.5°	154.8	176.0	270.1	391.6	591.9	549.4	394.6	1086.6	1147.3	1117.0	467.5
85°	36.4	45.5	151.7	258.0	288.4	245.9	191.2	318.7	394.6	385.5	179.1
87.5°	3.1	6.1	54.7	45.5	48.5	82.0	66.8	82.0	127.5	118.4	63.7
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°	4489.3	4489.3	4489.3	4489.3	4489.3	4489.3	4489.3	4489.3	4489.3	4489.3	4489.3
2.5°	4528.7	4471.1	4304.1	4140.2	4003.6	3861.0	3730.4	3654.6	3624.2	3590.8	3605.9
5°	4592.5	4452.8	4115.9	3824.5	3539.2	3296.4	3102.1	2977.7	2917.0	2907.8	2892.6
7.5°	4677.5	4437.7	3915.5	3460.3	3086.9	2816.8	2595.2	2416.1	2361.5	2312.9	2273.4
10°	4780.7	4410.3	3666.7	3077.8	2680.2	2340.2	2048.9	1836.4	1727.1	1696.8	1718.0
12.5°	4889.9	4358.7	3405.7	2725.7	2267.4	1833.3	1563.2	1456.9	1426.6	1414.5	1417.5
15°	4999.2	4295.0	3132.5	2385.8	1806.0	1463.0	1338.6	1311.3	1299.2	1293.0	1287.0
17.5°	5099.4	4191.8	2825.9	2054.9	1463.0	1250.5	1205.0	1180.8	1156.5	1147.3	1132.2
20°	5217.8	4073.4	2549.7	1684.6	1238.4	1132.2	1077.6	1032.0	995.6	971.3	968.3
22.5°	5330.0	3921.7	2261.3	1396.2	1129.2	1016.8	928.8	880.2	837.7	807.4	816.5
25°	5390.7	3736.5	2003.3	1217.2	1028.9	901.5	804.4	743.7	698.1	682.9	679.9
27.5°	5390.7	3508.9	1751.4	1114.0	938.0	798.3	698.1	640.5	610.1	588.8	591.9
30°	5348.3	3256.9	1517.7	1035.0	859.0	707.2	613.2	561.6	537.2	522.1	519.1
32.5°	5314.8	3017.1	1317.3	959.2	777.0	628.3	546.4	506.9	482.6	467.5	467.5
35°	5366.4	2810.7	1162.5	883.3	701.2	567.6	494.8	458.4	434.0	421.9	418.9
37.5°	5503.1	2622.5	1044.1	801.3	631.3	516.0	458.4	415.9	391.6	376.4	370.3
40°	5840.0	2516.3	956.1	725.4	564.5	473.5	415.9	376.4	346.0	330.8	327.8
42.5°	6380.3	2519.3	871.2	655.6	512.9	437.1	379.4	333.9	300.5	285.3	282.3
45°	7193.7	2634.6	804.4	588.8	467.5	397.6	340.0	291.4	261.1	245.9	245.9
47.5°	8168.1	2859.3	746.7	531.2	424.9	361.2	300.5	252.0	221.6	209.5	209.5
50°	9224.4	3150.7	689.0	470.5	388.5	321.7	258.0	218.5	194.3	185.2	185.2
52.5°	10301.9	3502.8	631.3	421.9	349.1	279.2	221.6	194.3	173.0	166.9	163.9
55°	11716.4	3952.0	570.7	370.3	306.5	239.8	197.3	170.0	145.7	136.6	133.6
57.5°	13892.7	4628.9	503.9	324.8	252.0	200.4	170.0	142.7	115.3	100.1	97.1
60°	16518.3	5454.5	434.0	285.3	203.3	163.9	136.6	109.3	85.0	66.8	63.7
62.5°	18976.9	5979.6	367.3	239.8	160.9	124.4	97.1	82.0	60.7	42.5	39.5
65°	20063.6	5803.6	303.6	194.3	127.5	88.0	63.7	57.7	36.4	18.2	15.2
66°	19702.4	5542.5	279.2	176.0	115.3	75.9	54.7	48.5	27.3	9.1	9.1
67.5°	18637.0	4926.3	242.8	151.7	100.1	60.7	42.5	36.4	15.2	3.1	0.0
70°	15968.9	3985.4	191.2	112.3	72.8	42.5	24.3	18.2	9.1	0.0	0.0
72.5°	12265.8	2968.6	151.7	85.0	51.6	24.3	12.1	6.1	9.1	0.0	0.0
75°	7515.5	1696.8	118.4	63.7	33.4	15.2	9.1	0.0	9.1	3.1	0.0
77.5°	3335.8	761.9	78.9	42.5	24.3	12.1	6.1	0.0	6.1	3.1	0.0
80°	843.8	248.9	45.5	30.4	18.2	9.1	3.1	0.0	6.1	6.1	3.1
82.5°	230.7	91.1	33.4	24.3	15.2	9.1	3.1	0.0	6.1	6.1	6.1
85°	91.1	42.5	30.4	24.3	18.2	9.1	3.1	0.0	6.1	6.1	6.1
87.5°	42.5	30.4	30.4	27.3	21.2	9.1	3.1	0.0	6.1	3.1	6.1
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)