

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: P651114

Luminaire Tested: **GALN-SA9C-840-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651114
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-840-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43915.3 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

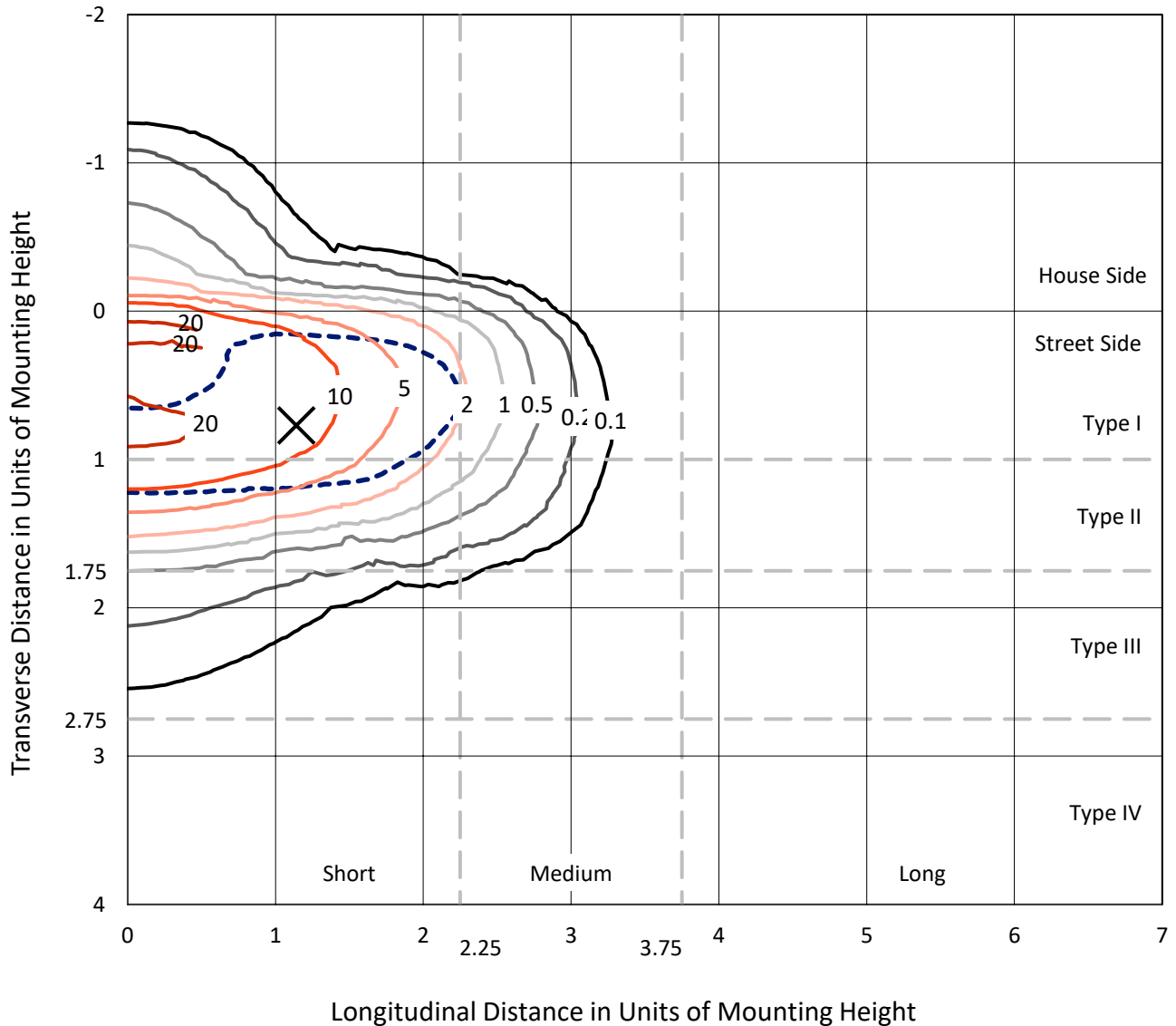
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

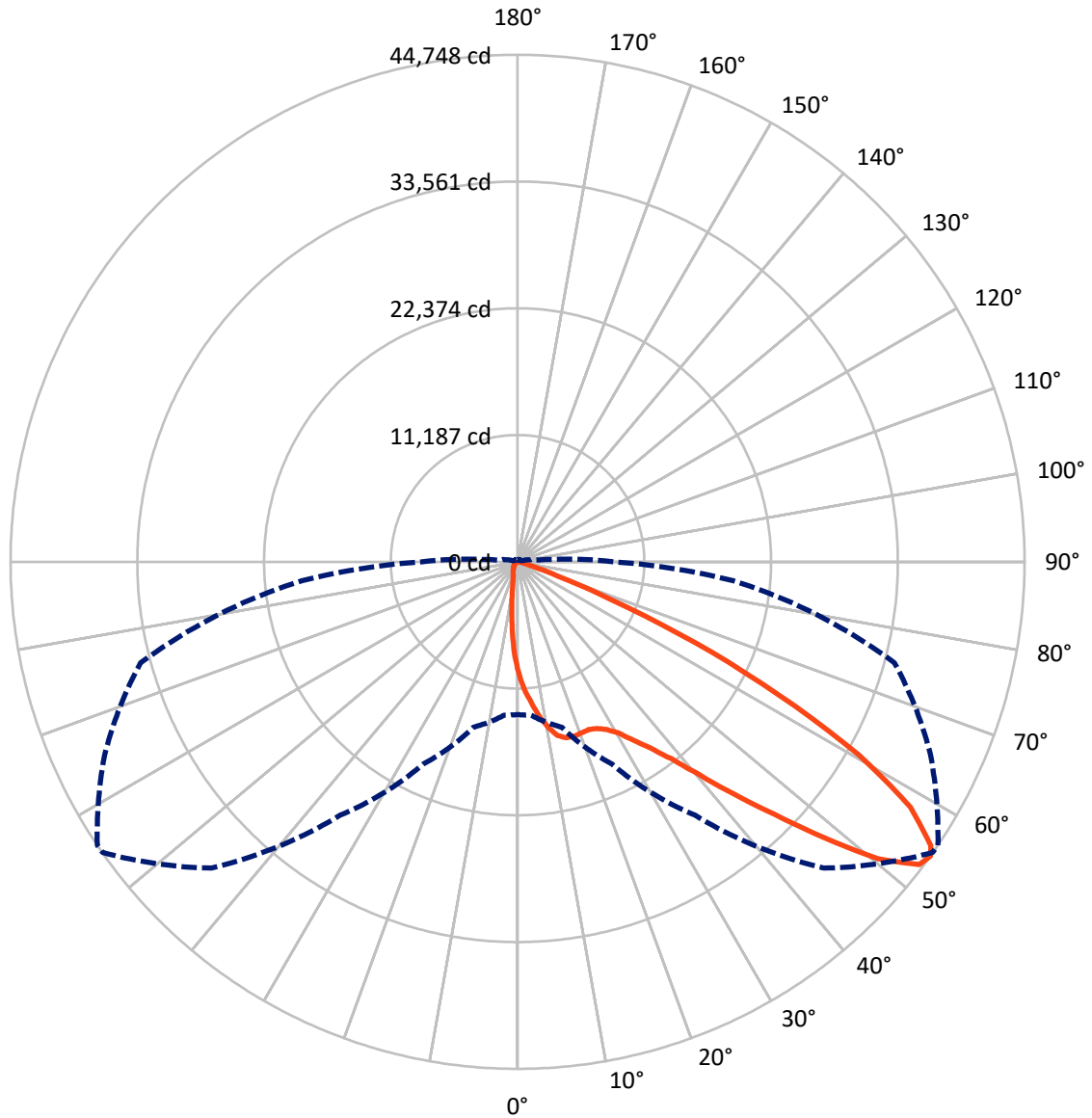
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2076.6	0.0	2076.6
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	41838.7	0.0	41838.7
	% Fixture	95.3	0.0	95.3
Total	Lumens	43915.3	0.0	43915.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	862.2	2.0
10°-20°	2330.7	5.3
20°-30°	4036.6	9.2
30°-40°	6967.8	15.9
40°-50°	11859.5	27.0
50°-60°	11736.4	26.7
60°-70°	5356.7	12.2
70°-80°	687.9	1.6
80°-90°	77.5	0.2
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°	43915.3	100.0
0°-180°	43915.3	100.0

Coefficient of Utilization

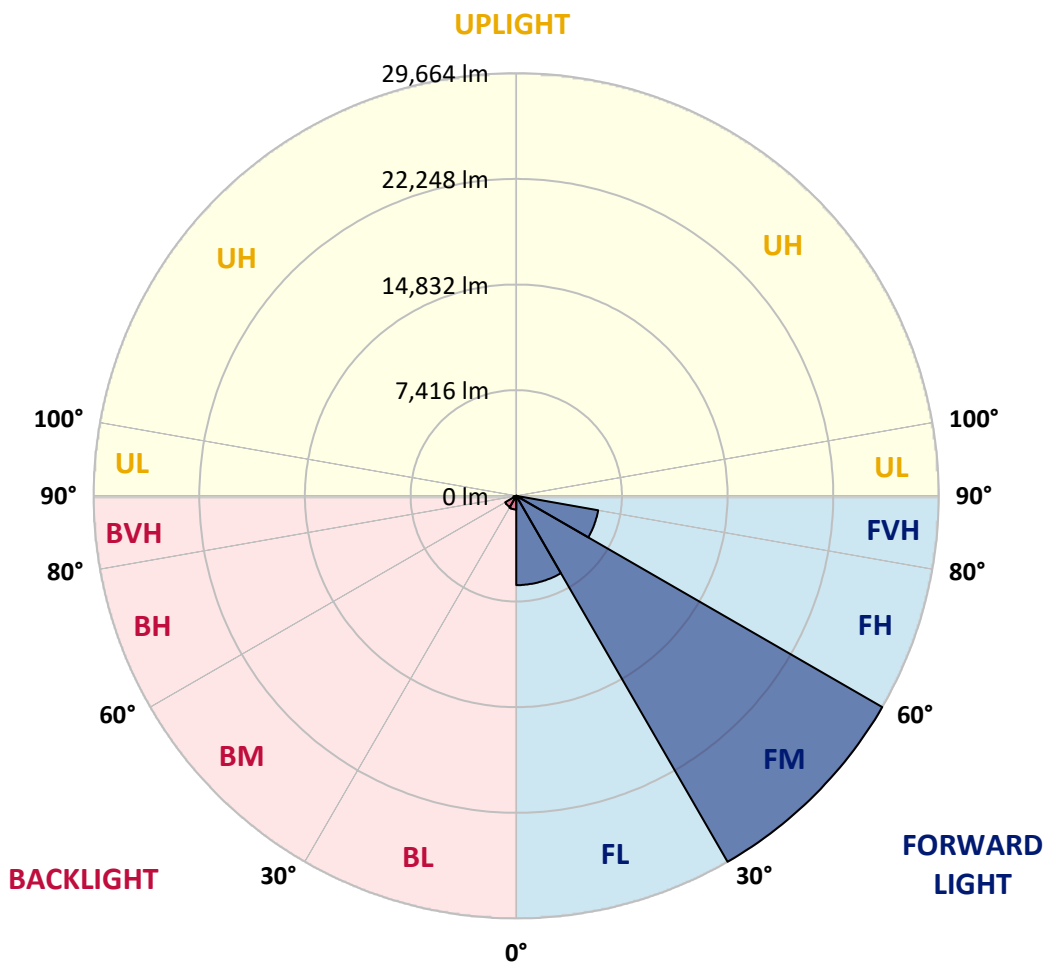


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6269.1	14.3			
FM (30°-60°)	29663.7	67.5			
FH (60°-80°)	5836.7	13.3			G3/7500
FVH (80°-90°)	69.2	0.2			G1/100
BL (0°-30°)	960.4	2.2	B2/1000		
BM (30°-60°)	900.0	2.0	B1/1000		
BH (60°-80°)	207.9	0.5	B1/500		G1/500
BVH (80°-90°)	8.3	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-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	9756.7	9756.7	9756.7	9756.7	9756.7	9756.7	9756.7	9756.7	9756.7	9756.7	9756.7
2.5°	12399.6	12313.7	12195.2	12103.3	11887.0	11575.9	11247.0	11247.0	10930.1	10488.5	10038.2
5°	14301.8	14245.4	14129.9	13892.9	13649.9	13214.4	12553.7	12438.1	11872.2	11072.3	10230.8
7.5°	15075.1	15101.8	15107.6	15045.4	14929.9	14500.3	13845.5	13765.5	12861.8	11789.2	10482.6
10°	14334.3	14464.7	14592.1	14849.9	15214.4	15318.1	14947.7	14864.7	13975.8	12515.2	10755.2
12.5°	13232.2	13303.3	13374.4	13780.3	14512.1	15350.6	15738.7	15735.8	14983.3	13238.1	11101.9
15°	12719.6	12781.9	12787.7	12968.5	13602.5	14823.2	16076.6	16121.0	15966.9	14129.9	11475.2
17.5°	12826.3	12876.6	12835.2	12879.6	13211.4	14242.5	16038.0	16186.1	16763.9	14986.2	11812.9
20°	13522.5	13620.3	13460.3	13335.9	13436.6	14088.4	15907.6	16115.1	17326.9	15821.7	12121.1
22.5°	14772.8	14826.2	14624.7	14284.0	14106.2	14411.4	15872.1	16076.6	17806.8	16506.1	12298.9
25°	16162.4	16144.7	15922.5	15540.3	15166.9	15063.2	16106.2	16289.8	18203.9	17122.4	12352.2
27.5°	17552.0	17605.3	17232.0	16758.0	16310.6	16041.0	16630.6	16766.8	18651.3	17824.6	12417.4
30°	19166.8	19080.9	18713.5	18171.2	17658.7	17282.4	17475.0	17513.5	19267.6	18755.0	12589.3
32.5°	21267.5	21030.5	20618.6	19670.5	19303.1	18666.1	18713.5	18760.9	20017.1	19676.4	12796.7
35°	24117.8	24105.9	23300.0	22023.0	21128.2	20337.1	20129.8	20168.3	21151.9	21045.3	13255.8
37.5°	27548.7	27596.2	26677.7	25391.8	23744.5	22488.2	22061.5	22067.4	22876.3	22935.6	13955.1
40°	30342.8	30467.2	29919.1	29050.9	27424.3	25459.9	24742.9	24677.7	25300.0	25225.9	14953.6
42.5°	31545.7	31661.2	31865.7	32167.8	31273.1	29652.4	27960.6	28049.5	28239.1	27720.6	16073.5
45°	30956.0	31139.7	31942.7	33809.3	34650.7	34105.6	32087.9	31776.8	30973.9	30431.6	17199.5
47.5°	28499.8	28947.2	30289.4	33397.5	36342.6	38185.4	36745.5	36333.6	33711.5	32410.8	17916.5
50°	24461.4	24488.1	26357.7	30330.9	35465.6	40760.2	41500.9	41192.8	36262.6	33521.9	18278.0
52.5°	17732.7	18316.5	20029.0	24630.4	31667.1	40369.1	44531.9	44404.5	38893.6	34090.8	18799.4
54°	13481.1	13593.7	15116.6	19682.3	27302.8	38221.0	44718.6	44748.2	40200.2	34434.5	19107.5
55°	11051.5	10781.9	12381.8	16766.8	24325.2	36321.8	44108.3	44250.5	40786.8	34612.2	19335.7
57.5°	5238.3	5241.3	6465.0	8844.1	15235.1	28203.5	40378.0	40881.7	40852.0	34917.4	20037.9
60°	2651.8	2669.6	2939.1	4082.8	7525.7	18749.0	33385.6	34585.5	37708.4	34961.9	20268.9
62.5°	1854.7	1834.1	1789.6	1964.4	3167.3	9528.6	24855.5	25898.4	32037.5	33270.0	19534.2
65°	1588.1	1543.7	1419.2	1392.5	1599.9	3795.4	15481.0	17181.7	24461.4	28808.0	17442.4
67.5°	1357.0	1339.2	1226.6	1158.5	1131.8	1653.3	7987.9	8882.6	16719.5	20707.5	13211.4
70°	1152.6	1143.7	1075.6	989.6	915.5	989.6	2962.8	3671.0	9318.2	11149.3	6233.9
72.5°	936.3	945.1	957.0	847.4	770.4	702.2	1265.1	1472.5	3899.1	3985.1	2180.7
75°	820.7	811.8	811.8	737.7	642.9	521.5	696.3	749.6	1194.1	1108.1	506.6
77.5°	577.8	557.0	651.9	607.4	536.3	370.4	397.0	420.8	494.8	423.7	237.0
80°	400.0	400.0	417.7	545.1	483.0	269.6	243.0	260.7	293.3	251.9	136.3
82.5°	225.2	231.1	272.6	290.4	281.5	180.7	160.0	163.0	195.5	171.8	86.0
85°	26.7	44.4	157.0	154.1	115.6	80.0	88.9	91.8	121.4	106.6	50.4
87.5°	2.9	5.9	32.6	41.5	29.6	32.6	32.6	32.6	41.5	47.4	35.6
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°	9756.7	9756.7	9756.7	9756.7	9756.7	9756.7	9756.7	9756.7	9756.7	9756.7	9756.7
2.5°	9795.2	9570.1	9033.8	8411.6	8014.6	7368.7	6823.5	6429.4	6331.6	6142.0	6198.3
5°	9783.4	9315.3	8222.0	7066.4	5833.8	4915.4	4231.0	3691.7	3454.7	3297.6	3188.1
7.5°	9789.3	9057.5	7303.5	5463.6	3991.0	3090.3	2456.2	2127.3	1908.1	1816.2	1828.1
10°	9807.1	8767.1	6236.9	4047.3	2693.2	1997.0	1608.8	1451.8	1377.7	1365.9	1362.9
12.5°	9848.6	8450.1	5217.6	3004.4	1884.3	1451.8	1303.6	1250.3	1226.6	1226.6	1217.8
15°	9893.0	8100.5	4370.3	2234.0	1451.8	1247.4	1179.3	1152.6	1137.7	1137.7	1134.8
17.5°	9893.0	7697.5	3579.1	1733.3	1250.3	1146.6	1093.3	1057.7	1045.9	1045.9	1042.9
20°	9830.8	7229.4	2877.0	1395.5	1134.8	1051.8	998.5	960.0	945.1	939.2	936.3
22.5°	9614.5	6604.2	2290.3	1199.9	1040.0	968.8	900.7	856.3	844.4	838.5	841.4
25°	9229.3	5899.1	1813.3	1054.8	954.0	868.1	808.9	776.2	764.4	764.4	767.4
27.5°	8832.4	5161.3	1437.0	945.1	850.3	773.3	725.9	705.2	702.2	711.1	714.1
30°	8464.9	4420.6	1164.4	856.3	758.5	693.3	660.7	654.8	654.8	657.7	660.7
32.5°	8056.0	3771.7	974.8	779.3	684.4	628.1	610.3	610.3	616.3	616.3	622.2
35°	7798.3	3214.7	856.3	705.2	628.1	580.7	568.9	571.8	580.7	592.6	598.5
37.5°	7659.0	2770.3	779.3	645.9	574.8	542.2	530.3	536.3	557.0	577.8	580.7
40°	7670.8	2435.5	717.0	595.5	533.3	497.8	488.9	506.6	527.4	548.2	551.1
42.5°	7801.2	2186.6	657.7	536.3	497.8	447.4	444.5	462.2	471.1	491.8	494.8
45°	7955.3	2005.9	595.5	474.1	432.6	388.1	391.1	406.0	417.7	450.4	456.2
47.5°	8002.7	1881.4	524.4	402.9	355.6	340.7	343.7	352.5	376.3	406.0	408.9
50°	8056.0	1804.4	456.2	340.7	302.2	299.2	302.2	308.1	322.9	334.8	331.9
52.5°	8284.2	1801.4	400.0	296.3	257.8	263.7	266.7	263.7	251.9	234.1	228.2
54°	8497.5	1810.3	373.3	275.5	237.0	245.9	243.0	228.2	198.5	180.7	171.8
55°	8669.4	1819.2	358.5	260.7	225.2	228.2	231.1	201.5	163.0	145.2	139.3
57.5°	9007.1	1798.5	322.9	228.2	198.5	186.7	183.7	133.3	88.9	77.0	71.1
60°	8838.2	1623.6	293.3	195.5	168.9	151.1	124.5	74.1	44.4	32.6	32.6
62.5°	8174.5	1377.7	260.7	160.0	139.3	115.6	65.2	41.5	20.8	11.9	8.9
65°	7312.3	1158.5	234.1	127.4	109.7	74.1	35.6	26.7	8.9	0.0	0.0
67.5°	5436.9	859.2	198.5	100.8	82.9	47.4	23.7	14.8	2.9	0.0	0.0
70°	2518.5	524.4	168.9	77.0	59.3	35.6	17.7	8.9	0.0	0.0	0.0
72.5°	722.9	328.9	139.3	56.3	41.5	29.6	14.8	5.9	2.9	0.0	0.0
75°	251.9	263.7	103.7	41.5	32.6	20.8	11.9	5.9	2.9	0.0	0.0
77.5°	151.1	213.4	65.2	35.6	26.7	17.7	11.9	5.9	2.9	2.9	0.0
80°	86.0	142.2	41.5	29.6	23.7	14.8	8.9	5.9	2.9	2.9	0.0
82.5°	47.4	68.1	32.6	26.7	20.8	14.8	8.9	5.9	2.9	2.9	2.9
85°	38.5	35.6	26.7	23.7	17.7	11.9	8.9	2.9	0.0	0.0	0.0
87.5°	29.6	23.7	23.7	23.7	17.7	11.9	8.9	2.9	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)