

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: P457878

Luminaire Tested: **GALN-SA9B-730-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457878
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-SA9B-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 800mA 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: 38490 lumens
Efficiency: N/A
Efficacy: 105.7 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

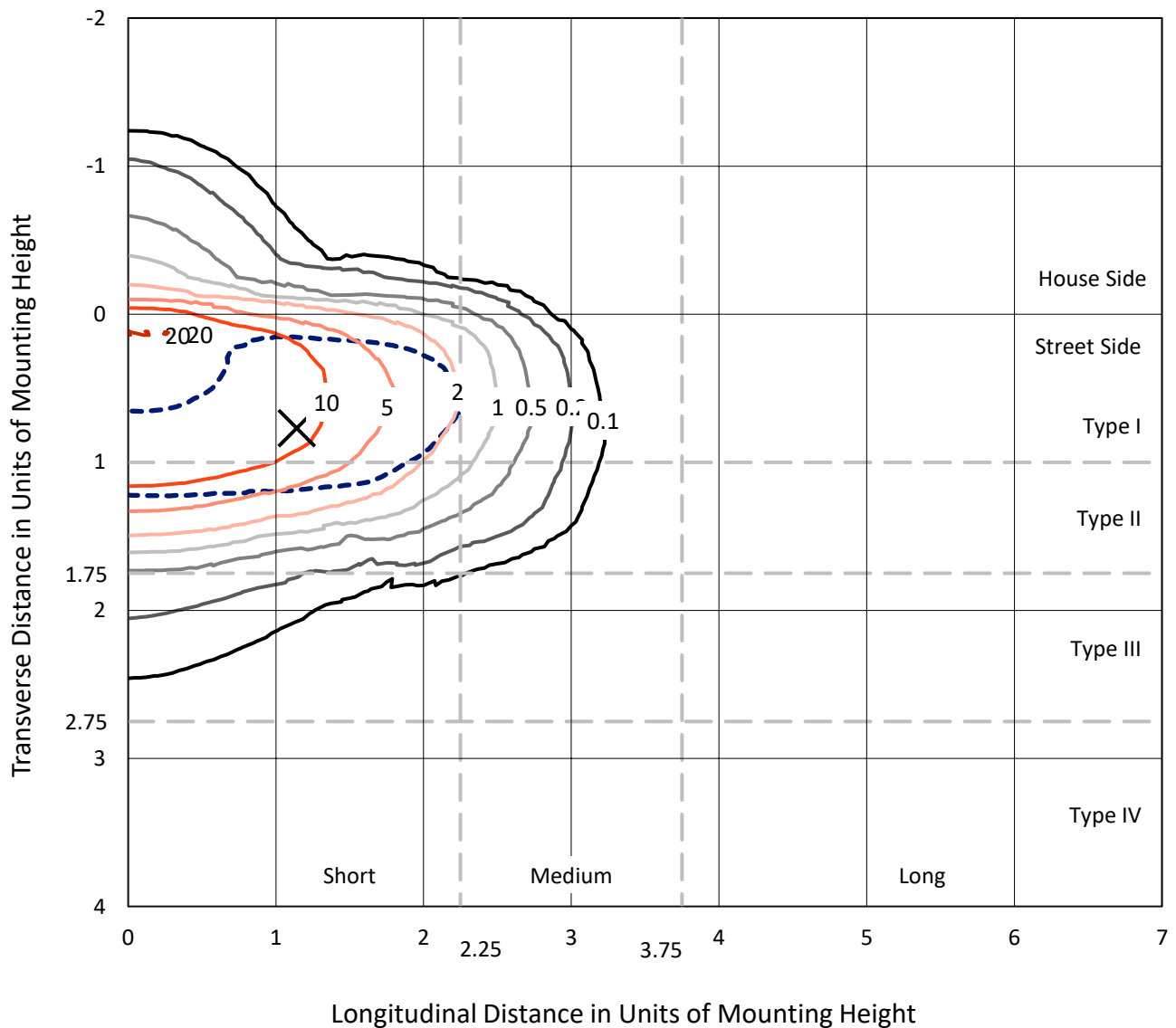
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

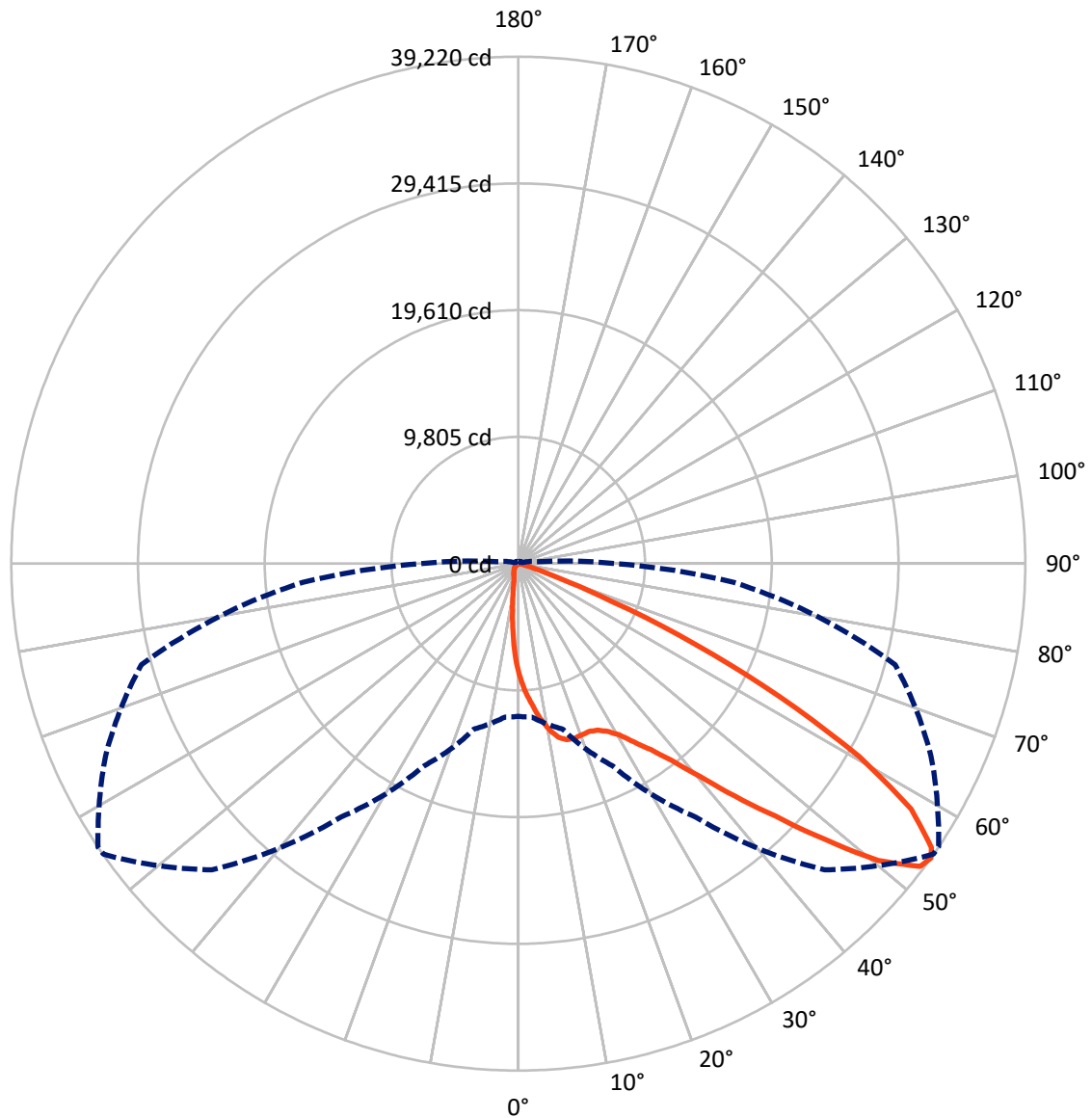
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.5 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	1820.1	0.0	1820.1
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	36669.9	0.0	36669.9
	% Fixture	95.3	0.0	95.3
Total	Lumens	38490.0	0.0	38490.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	755.6	2.0
10°-20°	2042.8	5.3
20°-30°	3537.9	9.2
30°-40°	6107.0	15.9
40°-50°	10394.3	27.0
50°-60°	10286.5	26.7
60°-70°	4695.0	12.2
70°-80°	602.9	1.6
80°-90°	68.0	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°	38490.0	100.0
0°-180°	38490.0	100.0

Coefficient of Utilization



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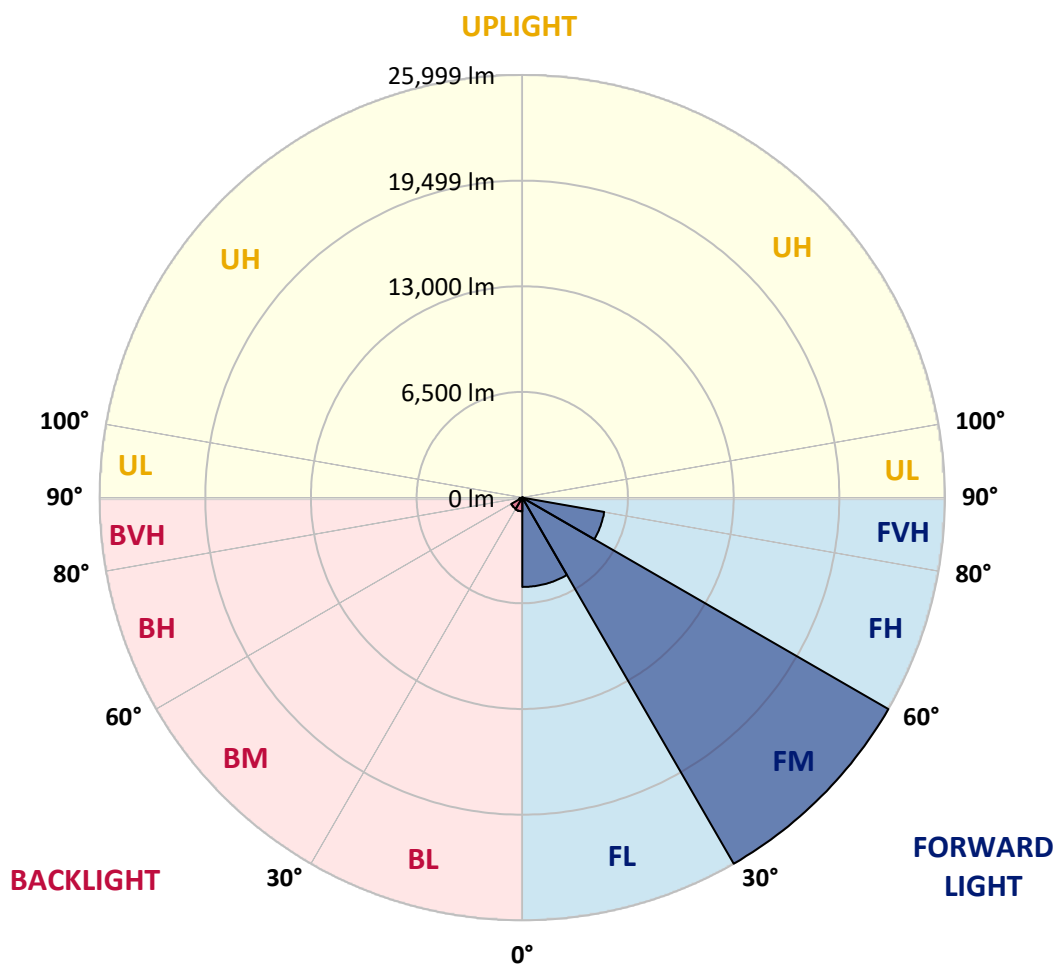
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5494.6	14.3			
FM (30°-60°)	25999.0	67.5			
FH (60°-80°)	5115.7	13.3			G3/7500
FVH (80°-90°)	60.7	0.2			G1/100
BL (0°-30°)	841.8	2.2	B2/1000		
BM (30°-60°)	788.8	2.0	B1/1000		
BH (60°-80°)	182.3	0.5	B1/500		G1/500
BVH (80°-90°)	7.3	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°	8551.4	8551.4	8551.4	8551.4	8551.4	8551.4	8551.4	8551.4	8551.4	8551.4	8551.4
2.5°	10867.7	10792.4	10688.6	10608.1	10418.5	10145.8	9857.6	9857.6	9579.7	9192.8	8798.1
5°	12534.9	12485.6	12384.3	12176.6	11963.6	11581.9	11002.8	10901.5	10405.5	9704.4	8966.9
7.5°	13212.7	13236.1	13241.3	13186.7	13085.4	12708.9	12135.0	12064.9	11272.9	10332.8	9187.6
10°	12563.5	12677.7	12789.4	13015.3	13334.7	13425.6	13101.0	13028.3	12249.3	10969.0	9426.5
12.5°	11597.5	11659.8	11722.1	12077.9	12719.3	13454.2	13794.4	13791.8	13132.2	11602.7	9730.3
15°	11148.2	11202.7	11207.9	11366.3	11922.1	12992.0	14090.4	14129.4	13994.3	12384.3	10057.5
17.5°	11241.7	11285.8	11249.5	11288.4	11579.3	12483.0	14056.7	14186.5	14692.9	13134.8	10353.6
20°	11851.9	11937.6	11797.4	11688.3	11776.6	12347.9	13942.4	14124.2	15186.3	13867.1	10623.6
22.5°	12947.8	12994.6	12818.0	12519.3	12363.5	12631.0	13911.2	14090.4	15607.0	14467.0	10779.5
25°	14165.7	14150.1	13955.4	13620.4	13293.2	13202.3	14116.4	14277.4	15954.9	15007.1	10826.2
27.5°	15383.6	15430.4	15103.2	14687.7	14295.6	14059.3	14576.0	14695.5	16347.1	15622.5	10883.3
30°	16798.9	16723.6	16401.6	15926.4	15477.1	15147.3	15316.1	15349.9	16887.2	16438.0	11033.9
32.5°	18640.1	18432.3	18071.4	17240.4	16918.4	16360.0	16401.6	16443.1	17544.2	17245.6	11215.7
35°	21138.2	21127.8	20421.5	19302.3	18518.0	17824.7	17642.9	17676.6	18538.8	18445.3	11618.2
37.5°	24145.4	24186.9	23381.9	22254.9	20811.0	19710.0	19336.0	19341.2	20050.1	20102.1	12231.1
40°	26594.2	26703.2	26222.8	25461.9	24036.3	22314.6	21686.2	21629.0	22174.4	22109.4	13106.2
42.5°	27648.5	27749.8	27928.9	28193.8	27409.6	25989.1	24506.3	24584.2	24750.4	24296.0	14087.8
45°	27131.7	27292.7	27996.5	29632.5	30370.0	29892.1	28123.7	27851.0	27147.3	26672.1	15074.6
47.5°	24978.9	25371.1	26547.4	29271.5	31852.8	33468.0	32205.9	31845.0	29546.8	28406.8	15703.1
50°	21439.5	21462.8	23101.4	26583.8	31084.1	35724.6	36373.8	36103.8	31782.6	29380.6	16019.9
52.5°	15542.0	16053.6	17554.6	21587.5	27755.0	35381.9	39030.4	38918.7	34088.6	29879.2	16476.9
54°	11815.6	11914.3	13249.0	17250.8	23929.8	33499.1	39194.0	39220.0	35233.8	30180.4	16747.0
55°	9686.2	9449.9	10852.2	14695.5	21320.0	31834.6	38659.1	38783.7	35748.0	30336.2	16946.9
57.5°	4591.2	4593.8	5666.3	7751.5	13352.9	24719.3	35389.6	35831.1	35805.1	30603.7	17562.4
60°	2324.2	2339.7	2576.1	3578.4	6596.0	16432.8	29261.1	30312.8	33049.9	30642.6	17764.9
62.5°	1625.6	1607.4	1568.5	1721.7	2776.0	8351.4	21784.8	22698.9	28079.6	29159.8	17120.9
65°	1391.9	1353.0	1243.9	1220.5	1402.3	3326.5	13568.5	15059.0	21439.5	25249.0	15287.6
67.5°	1189.3	1173.8	1075.1	1015.4	992.0	1449.0	7001.1	7785.3	14653.9	18149.3	11579.3
70°	1010.2	1002.4	942.7	867.3	802.4	867.3	2596.8	3217.5	8167.0	9771.9	5463.7
72.5°	820.6	828.4	838.8	742.7	675.2	615.4	1108.8	1290.6	3417.4	3492.7	1911.3
75°	719.3	711.5	711.5	646.6	563.5	457.0	610.3	657.0	1046.5	971.2	444.1
77.5°	506.4	488.2	571.3	532.4	470.0	324.6	348.0	368.8	433.7	371.3	207.7
80°	350.6	350.6	366.2	477.8	423.3	236.3	212.9	228.5	257.1	220.7	119.5
82.5°	197.4	202.6	238.9	254.5	246.7	158.4	140.2	142.8	171.4	150.6	75.3
85°	23.4	39.0	137.6	135.0	101.3	70.1	77.9	80.5	106.5	93.5	44.1
87.5°	2.6	5.2	28.6	36.4	26.0	28.6	28.6	28.6	36.4	41.5	31.2
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°	8551.4	8551.4	8551.4	8551.4	8551.4	8551.4	8551.4	8551.4	8551.4	8551.4	8551.4
2.5°	8585.1	8387.8	7917.7	7372.4	7024.4	6458.3	5980.5	5635.1	5549.4	5383.2	5432.6
5°	8574.7	8164.4	7206.2	6193.4	5113.2	4308.1	3708.3	3235.7	3027.9	2890.3	2794.2
7.5°	8579.9	7938.5	6401.2	4788.6	3497.9	2708.5	2152.8	1864.5	1672.4	1591.9	1602.2
10°	8595.5	7684.0	5466.3	3547.3	2360.5	1750.3	1410.1	1272.4	1207.5	1197.1	1194.5
12.5°	8631.9	7406.2	4573.0	2633.2	1651.6	1272.4	1142.6	1095.9	1075.1	1075.1	1067.3
15°	8670.8	7099.7	3830.3	1958.0	1272.4	1093.3	1033.5	1010.2	997.2	997.2	994.6
17.5°	8670.8	6746.6	3137.0	1519.1	1095.9	1005.0	958.2	927.1	916.7	916.7	914.1
20°	8616.3	6336.3	2521.5	1223.1	994.6	921.9	875.1	841.4	828.4	823.2	820.6
22.5°	8426.7	5788.3	2007.4	1051.7	911.5	849.2	789.4	750.5	740.1	734.9	737.5
25°	8089.1	5170.3	1589.3	924.5	836.2	760.9	708.9	680.4	670.0	670.0	672.6
27.5°	7741.2	4523.7	1259.5	828.4	745.3	677.8	636.2	618.0	615.4	623.2	625.8
30°	7419.2	3874.5	1020.6	750.5	664.8	607.7	579.1	573.9	573.9	576.5	579.1
32.5°	7060.8	3305.8	854.4	683.0	599.9	550.5	534.9	534.9	540.1	540.1	545.3
35°	6834.9	2817.6	750.5	618.0	550.5	509.0	498.6	501.2	509.0	519.4	524.6
37.5°	6712.8	2428.0	683.0	566.1	503.8	475.2	464.8	470.0	488.2	506.4	509.0
40°	6723.2	2134.6	628.4	522.0	467.4	436.3	428.5	444.1	462.2	480.4	483.0
42.5°	6837.5	1916.5	576.5	470.0	436.3	392.1	389.5	405.1	412.9	431.1	433.7
45°	6972.5	1758.1	522.0	415.5	379.1	340.2	342.8	355.8	366.2	394.7	399.9
47.5°	7014.0	1649.0	459.6	353.2	311.6	298.6	301.2	309.0	329.8	355.8	358.4
50°	7060.8	1581.5	399.9	298.6	264.9	262.3	264.9	270.1	283.1	293.4	290.8
52.5°	7260.7	1578.9	350.6	259.7	225.9	231.1	233.7	231.1	220.7	205.1	200.0
54°	7447.7	1586.7	327.2	241.5	207.7	215.5	212.9	200.0	174.0	158.4	150.6
55°	7598.3	1594.5	314.2	228.5	197.4	200.0	202.6	176.6	142.8	127.2	122.1
57.5°	7894.4	1576.3	283.1	200.0	174.0	163.6	161.0	116.9	77.9	67.5	62.3
60°	7746.4	1423.1	257.1	171.4	148.0	132.4	109.1	64.9	39.0	28.6	28.6
62.5°	7164.7	1207.5	228.5	140.2	122.1	101.3	57.1	36.4	18.2	10.4	7.8
65°	6409.0	1015.4	205.1	111.7	96.1	64.9	31.2	23.4	7.8	0.0	0.0
67.5°	4765.2	753.1	174.0	88.3	72.7	41.5	20.8	13.0	2.6	0.0	0.0
70°	2207.3	459.6	148.0	67.5	51.9	31.2	15.6	7.8	0.0	0.0	0.0
72.5°	633.6	288.2	122.1	49.3	36.4	26.0	13.0	5.2	2.6	0.0	0.0
75°	220.7	231.1	90.9	36.4	28.6	18.2	10.4	5.2	2.6	0.0	0.0
77.5°	132.4	187.0	57.1	31.2	23.4	15.6	10.4	5.2	2.6	2.6	0.0
80°	75.3	124.6	36.4	26.0	20.8	13.0	7.8	5.2	2.6	2.6	0.0
82.5°	41.5	59.7	28.6	23.4	18.2	13.0	7.8	5.2	2.6	2.6	2.6
85°	33.8	31.2	23.4	20.8	15.6	10.4	7.8	2.6	0.0	0.0	0.0
87.5°	26.0	20.8	20.8	20.8	15.6	10.4	7.8	2.6	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)