

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: P457182

Luminaire Tested: **GALN-SA8C-730-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457182
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-SA8C-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 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: 42360 lumens
Efficiency: N/A
Efficacy: 98.7 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

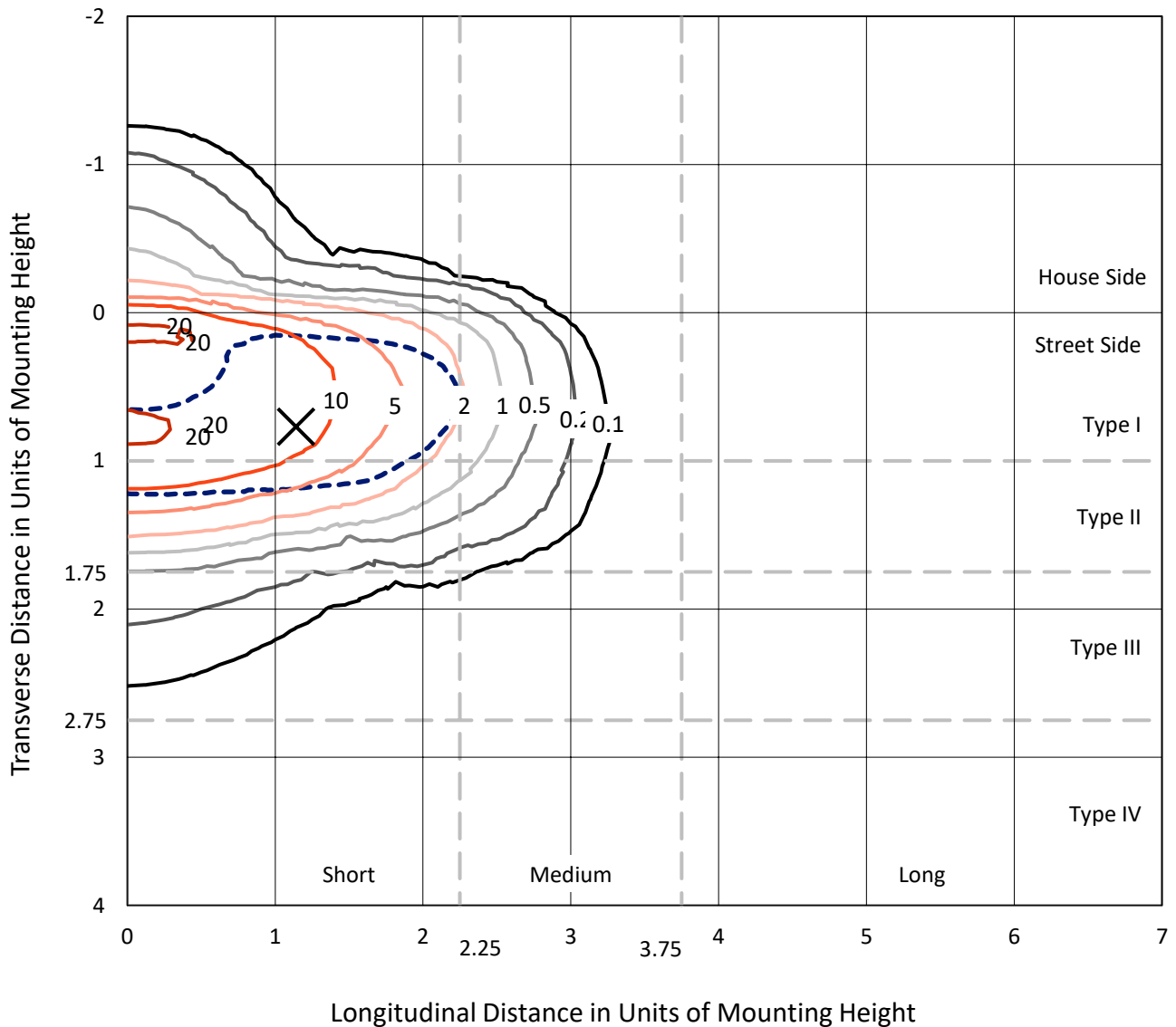
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

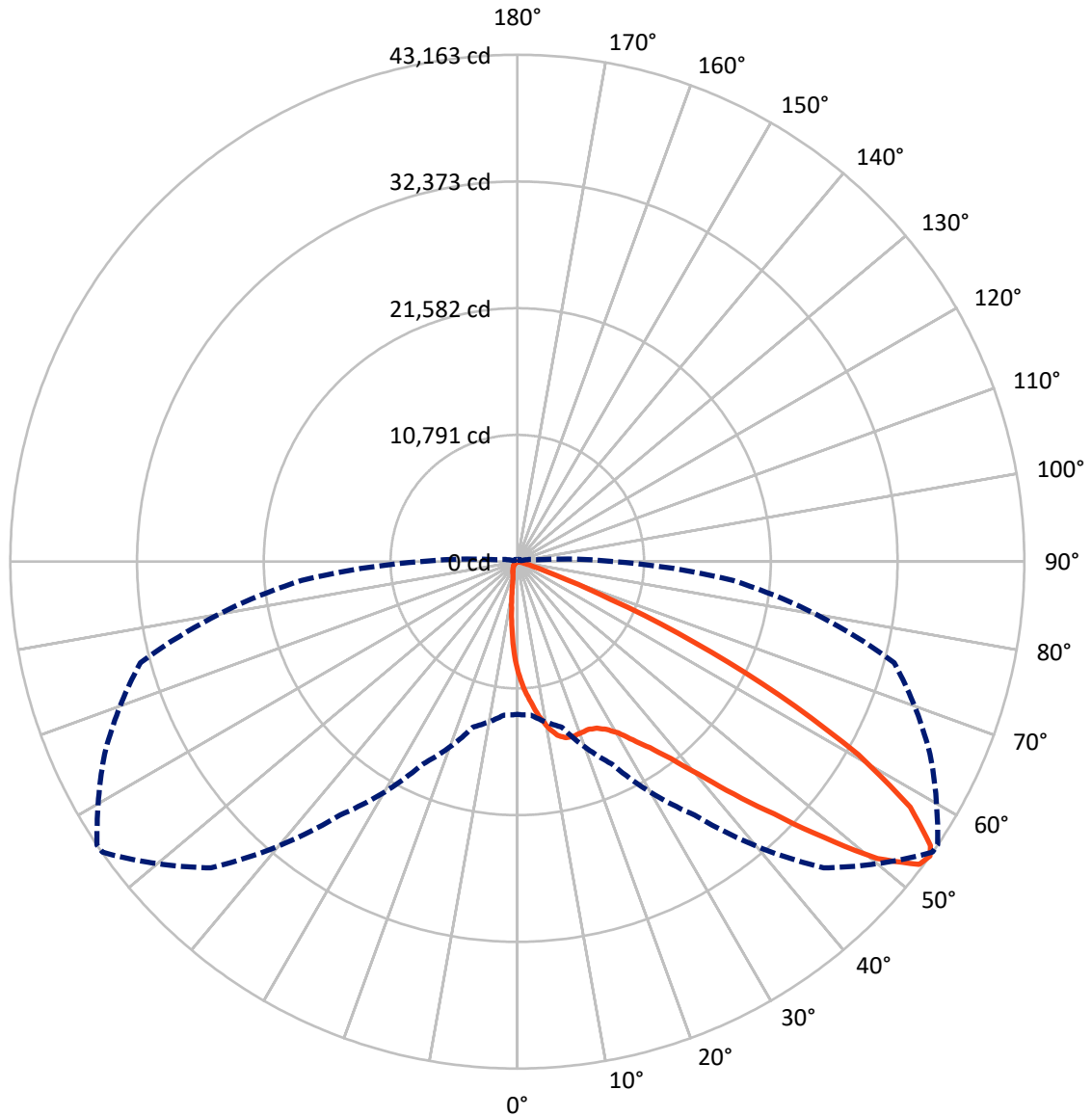
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.6 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	2003.1	0.0	2003.1
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	40356.9	0.0	40356.9
	% Fixture	95.3	0.0	95.3
Total	Lumens	42360.0	0.0	42360.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	831.6	2.0
10°-20°	2248.2	5.3
20°-30°	3893.6	9.2
30°-40°	6721.0	15.9
40°-50°	11439.4	27.0
50°-60°	11320.7	26.7
60°-70°	5167.0	12.2
70°-80°	663.6	1.6
80°-90°	74.8	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°	42360.0	100.0
0°-180°	42360.0	100.0

Coefficient of Utilization



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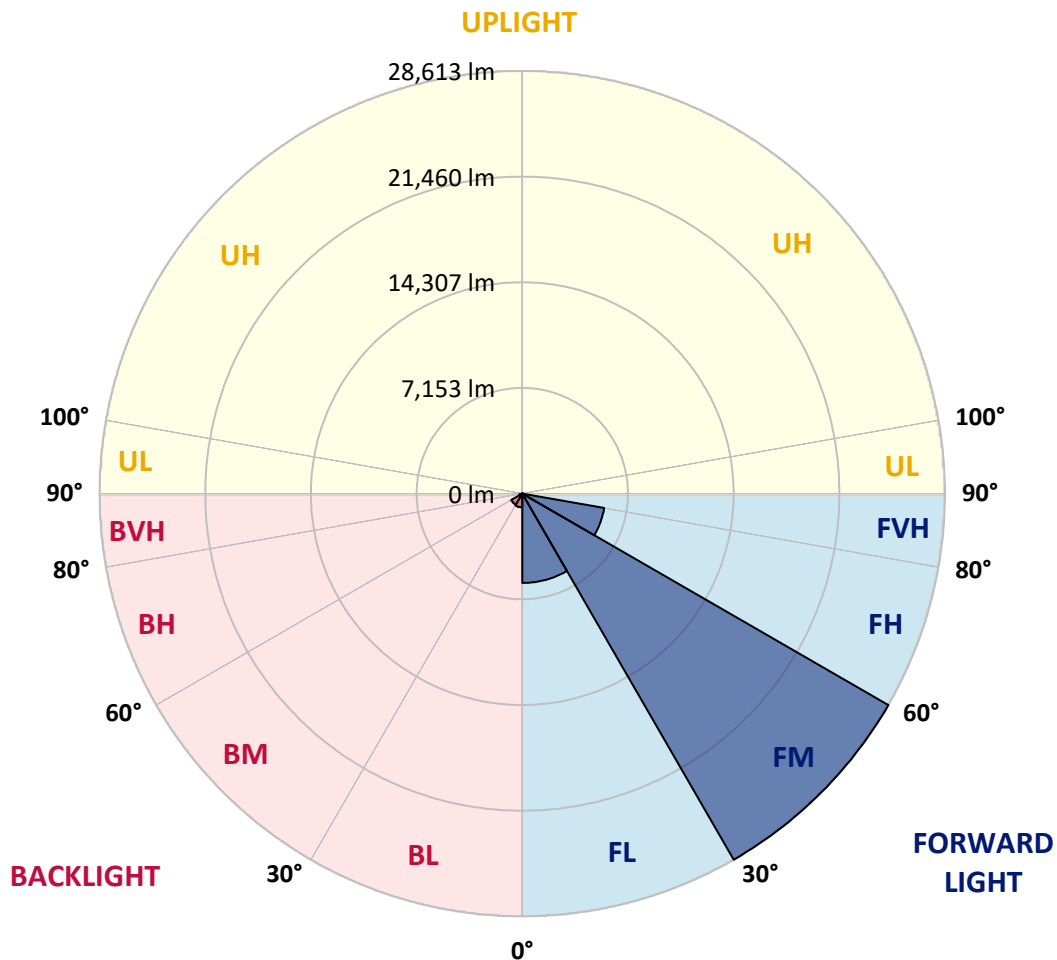
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6047.0	14.3			
FM (30°-60°)	28613.1	67.5			
FH (60°-80°)	5630.0	13.3			G3/7500
FVH (80°-90°)	66.8	0.2			G1/100
BL (0°-30°)	926.4	2.2	B2/1000		
BM (30°-60°)	868.1	2.0	B1/1000		
BH (60°-80°)	200.6	0.5	B1/500		G1/500
BVH (80°-90°)	8.0	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°	9411.2	9411.2	9411.2	9411.2	9411.2	9411.2	9411.2	9411.2	9411.2	9411.2	9411.2
2.5°	11960.5	11877.6	11763.3	11674.7	11466.0	11165.9	10848.7	10848.7	10542.9	10117.1	9682.7
5°	13795.2	13740.9	13629.5	13400.8	13166.5	12746.4	12109.1	11997.6	11451.7	10680.1	9868.4
7.5°	14541.2	14566.9	14572.6	14512.6	14401.1	13986.7	13355.1	13278.0	12406.3	11371.7	10111.4
10°	13826.7	13952.4	14075.3	14324.0	14675.5	14775.5	14418.3	14338.3	13480.9	12071.9	10374.3
12.5°	12763.5	12832.1	12900.7	13292.2	13998.2	14807.0	15181.3	15178.5	14452.6	12769.2	10708.7
15°	12269.1	12329.1	12334.8	12509.2	13120.8	14298.2	15507.1	15550.0	15401.4	13629.5	11068.8
17.5°	12372.0	12420.6	12380.6	12423.4	12743.5	13738.1	15470.0	15612.9	16170.2	14455.4	11394.6
20°	13043.6	13137.9	12983.6	12863.6	12960.7	13589.5	15344.2	15544.3	16713.2	15261.4	11691.8
22.5°	14249.7	14301.1	14106.8	13778.1	13606.6	13901.0	15309.9	15507.1	17176.2	15921.5	11863.3
25°	15590.0	15572.9	15358.5	14989.9	14629.8	14529.7	15535.7	15712.9	17559.1	16516.0	11914.7
27.5°	16930.4	16981.8	16621.7	16164.5	15732.9	15472.9	16041.6	16173.0	17990.7	17193.3	11977.6
30°	18488.0	18405.1	18050.7	17527.7	17033.3	16670.3	16856.1	16893.2	18585.1	18090.7	12143.4
32.5°	20514.2	20285.6	19888.4	18973.8	18619.4	18005.0	18050.7	18096.4	19308.2	18979.5	12343.4
35°	23263.6	23252.1	22474.8	21243.0	20379.9	19616.9	19416.8	19454.0	20402.8	20299.9	12786.4
37.5°	26573.1	26618.8	25732.8	24492.5	22903.5	21691.7	21280.2	21285.9	22066.1	22123.3	13460.9
40°	29268.1	29388.1	28859.4	28022.0	26453.0	24558.2	23866.6	23803.7	24403.9	24332.4	14424.0
42.5°	30428.4	30539.9	30737.1	31028.6	30165.5	28602.2	26970.3	27056.1	27239.0	26738.8	15504.3
45°	29859.7	30036.9	30811.4	32611.9	33423.5	32897.7	30951.4	30651.3	29876.8	29353.8	16590.3
47.5°	27490.5	27922.0	29216.7	32214.6	35055.4	36833.0	35444.1	35046.8	32517.6	31262.9	17281.9
50°	23595.1	23620.8	25424.2	29256.7	34209.5	39316.6	40031.1	39733.8	34978.2	32334.7	17630.6
52.5°	17104.7	17667.7	19319.6	23758.0	30545.6	38939.3	42954.7	42831.8	37516.1	32883.4	18133.6
54°	13003.6	13112.2	14581.2	18985.3	26335.9	36867.3	43134.8	43163.4	38776.4	33214.9	18430.8
55°	10660.1	10400.0	11943.3	16173.0	23463.6	35035.4	42546.1	42683.2	39342.3	33386.4	18650.9
57.5°	5052.8	5055.7	6236.0	8530.9	14695.5	27204.7	38947.9	39433.8	39405.2	33680.7	19328.2
60°	2557.9	2575.0	2835.1	3938.2	7259.2	18085.0	32203.2	33360.7	36372.9	33723.6	19551.1
62.5°	1789.1	1769.1	1726.2	1894.8	3055.1	9191.1	23975.2	24981.2	30902.8	32091.7	18842.4
65°	1531.9	1489.0	1369.0	1343.2	1543.3	3661.0	14932.7	16573.2	23595.1	27787.7	16824.7
67.5°	1308.9	1291.8	1183.2	1117.5	1091.7	1594.7	7705.0	8568.1	16127.3	19974.1	12743.5
70°	1111.7	1103.2	1037.4	954.5	883.1	954.5	2857.9	3541.0	8988.2	10754.4	6013.1
72.5°	903.1	911.7	923.1	817.4	743.1	677.3	1220.3	1420.4	3761.0	3843.9	2103.4
75°	791.6	783.1	783.1	711.6	620.2	503.0	671.6	723.1	1151.7	1068.9	488.7
77.5°	557.3	537.3	628.7	585.9	517.3	357.2	383.0	405.8	477.3	408.7	228.6
80°	385.8	385.8	403.0	525.9	465.8	260.1	234.4	251.5	282.9	242.9	131.5
82.5°	217.2	222.9	262.9	280.1	271.5	174.3	154.3	157.2	188.6	165.8	82.9
85°	25.7	42.9	151.5	148.6	111.5	77.2	85.7	88.6	117.2	102.9	48.6
87.5°	2.9	5.7	31.4	40.0	28.6	31.4	31.4	31.4	40.0	45.7	34.3
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°	9411.2	9411.2	9411.2	9411.2	9411.2	9411.2	9411.2	9411.2	9411.2	9411.2	9411.2
2.5°	9448.3	9231.1	8713.8	8113.7	7730.7	7107.7	6581.8	6201.7	6107.4	5924.5	5978.8
5°	9436.9	8985.3	7930.8	6816.2	5627.3	4741.3	4081.1	3561.0	3332.4	3180.9	3075.1
7.5°	9442.6	8736.7	7044.8	5270.0	3849.6	2980.8	2369.2	2052.0	1840.5	1751.9	1763.3
10°	9459.8	8456.6	6015.9	3903.9	2597.9	1926.2	1551.9	1400.4	1328.9	1317.5	1314.6
12.5°	9499.8	8150.8	5032.8	2897.9	1817.6	1400.4	1257.5	1206.0	1183.2	1183.2	1174.6
15°	9542.6	7813.6	4215.5	2154.9	1400.4	1203.2	1137.5	1111.7	1097.4	1097.4	1094.6
17.5°	9542.6	7424.9	3452.4	1671.9	1206.0	1106.0	1054.6	1020.3	1008.9	1008.9	1006.0
20°	9482.6	6973.4	2775.1	1346.1	1094.6	1014.6	963.1	926.0	911.7	906.0	903.1
22.5°	9274.0	6370.3	2209.2	1157.5	1003.1	934.5	868.8	825.9	814.5	808.8	811.7
25°	8902.5	5690.1	1749.1	1017.4	920.3	837.4	780.2	748.8	737.3	737.3	740.2
27.5°	8519.5	4978.5	1386.1	911.7	820.2	745.9	700.2	680.2	677.3	685.9	688.8
30°	8165.1	4264.0	1123.2	825.9	731.6	668.8	637.3	631.6	631.6	634.5	637.3
32.5°	7770.7	3638.1	940.3	751.6	660.2	605.9	588.7	588.7	594.5	594.5	600.2
35°	7522.1	3100.9	825.9	680.2	605.9	560.2	548.7	551.6	560.2	571.6	577.3
37.5°	7387.8	2672.2	751.6	623.0	554.4	523.0	511.6	517.3	537.3	557.3	560.2
40°	7399.2	2349.2	691.6	574.4	514.4	480.1	471.6	488.7	508.7	528.7	531.6
42.5°	7524.9	2109.2	634.5	517.3	480.1	431.5	428.7	445.8	454.4	474.4	477.3
45°	7673.6	1934.8	574.4	457.3	417.3	374.4	377.2	391.5	403.0	434.4	440.1
47.5°	7719.3	1814.8	505.9	388.7	343.0	328.7	331.5	340.1	363.0	391.5	394.4
50°	7770.7	1740.5	440.1	328.7	291.5	288.7	291.5	297.2	311.5	322.9	320.1
52.5°	7990.8	1737.6	385.8	285.8	248.6	254.4	257.2	254.4	242.9	225.8	220.1
54°	8196.6	1746.2	360.1	265.8	228.6	237.2	234.4	220.1	191.5	174.3	165.8
55°	8362.3	1754.8	345.8	251.5	217.2	220.1	222.9	194.3	157.2	140.0	134.3
57.5°	8688.1	1734.8	311.5	220.1	191.5	180.0	177.2	128.6	85.7	74.3	68.6
60°	8525.2	1566.1	282.9	188.6	162.9	145.8	120.0	71.4	42.9	31.4	31.4
62.5°	7885.0	1328.9	251.5	154.3	134.3	111.5	62.9	40.0	20.0	11.4	8.6
65°	7053.4	1117.5	225.8	122.9	105.7	71.4	34.3	25.7	8.6	0.0	0.0
67.5°	5244.3	828.8	191.5	97.2	80.0	45.7	22.9	14.3	2.9	0.0	0.0
70°	2429.2	505.9	162.9	74.3	57.2	34.3	17.1	8.6	0.0	0.0	0.0
72.5°	697.3	317.2	134.3	54.3	40.0	28.6	14.3	5.7	2.9	0.0	0.0
75°	242.9	254.4	100.0	40.0	31.4	20.0	11.4	5.7	2.9	0.0	0.0
77.5°	145.8	205.8	62.9	34.3	25.7	17.1	11.4	5.7	2.9	2.9	0.0
80°	82.9	137.2	40.0	28.6	22.9	14.3	8.6	5.7	2.9	2.9	0.0
82.5°	45.7	65.7	31.4	25.7	20.0	14.3	8.6	5.7	2.9	2.9	2.9
85°	37.2	34.3	25.7	22.9	17.1	11.4	8.6	2.9	0.0	0.0	0.0
87.5°	28.6	22.9	22.9	22.9	17.1	11.4	8.6	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)