

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: P532185

Luminaire Tested: **GALN-SA7C-735-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532185
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-735-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26676 lumens
Efficiency: N/A
Efficacy: 70.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

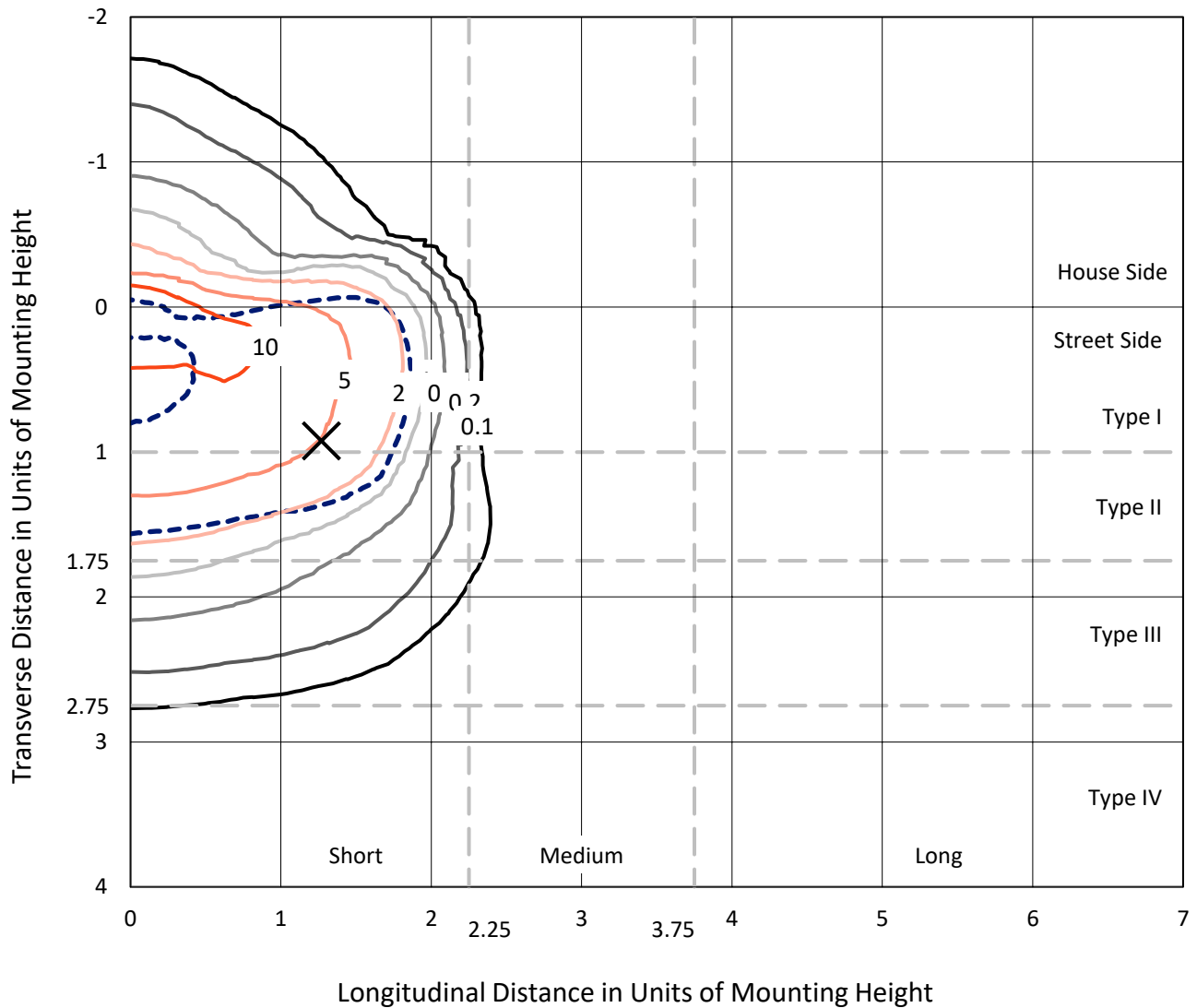
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

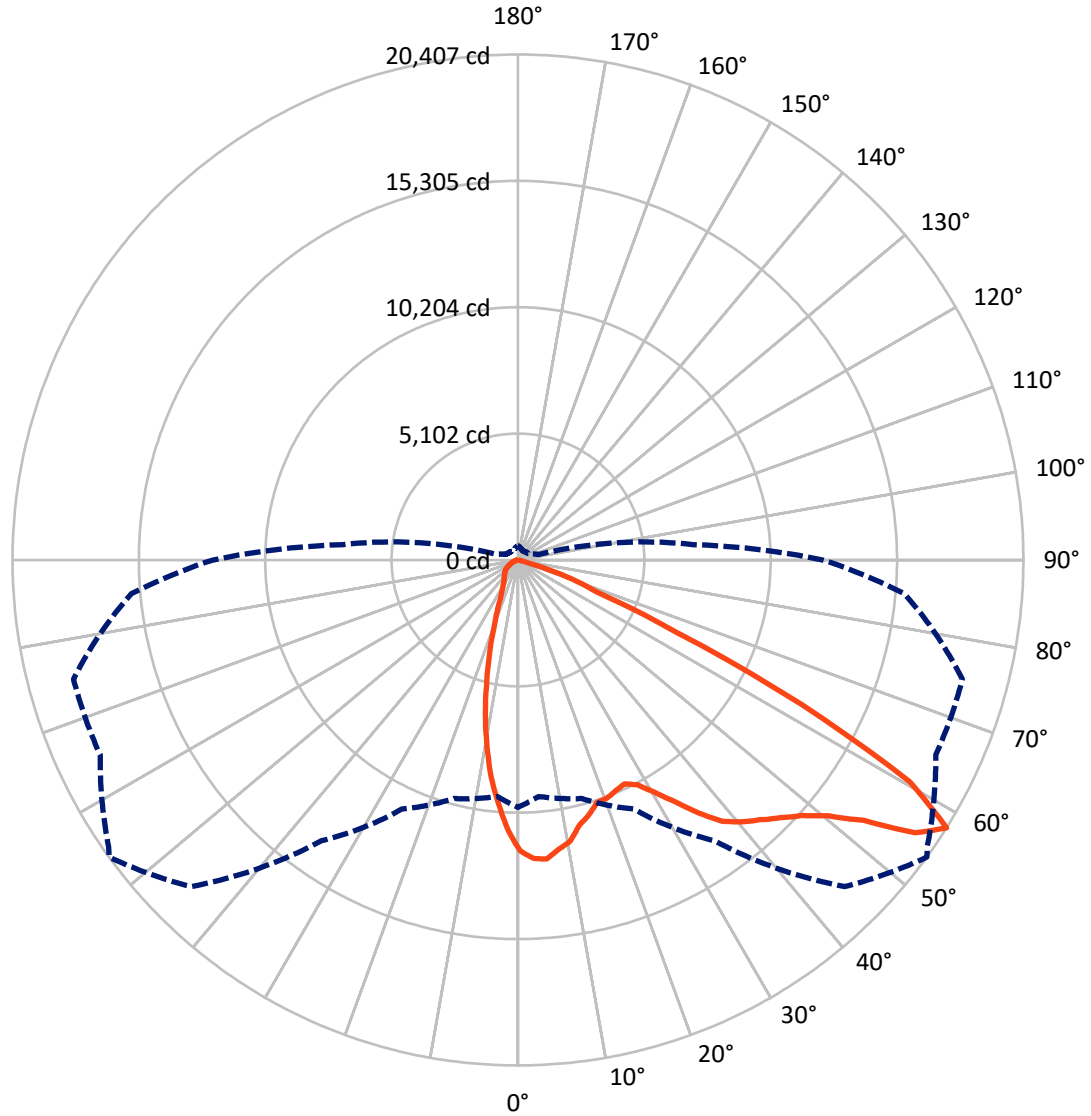
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3769.8	0.0	3769.8
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	22906.2	0.0	22906.2
	% Fixture	85.9	0.0	85.9
Total	Lumens	26676.0	0.0	26676.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	983.4	3.7
10°-20°	2099.5	7.9
20°-30°	2782.2	10.4
30°-40°	4043.3	15.2
40°-50°	5995.7	22.5
50°-60°	7497.3	28.1
60°-70°	2957.3	11.1
70°-80°	294.4	1.1
80°-90°	22.9	0.1
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°	26676.0	100.0
0°-180°	26676.0	100.0

Coefficient of Utilization

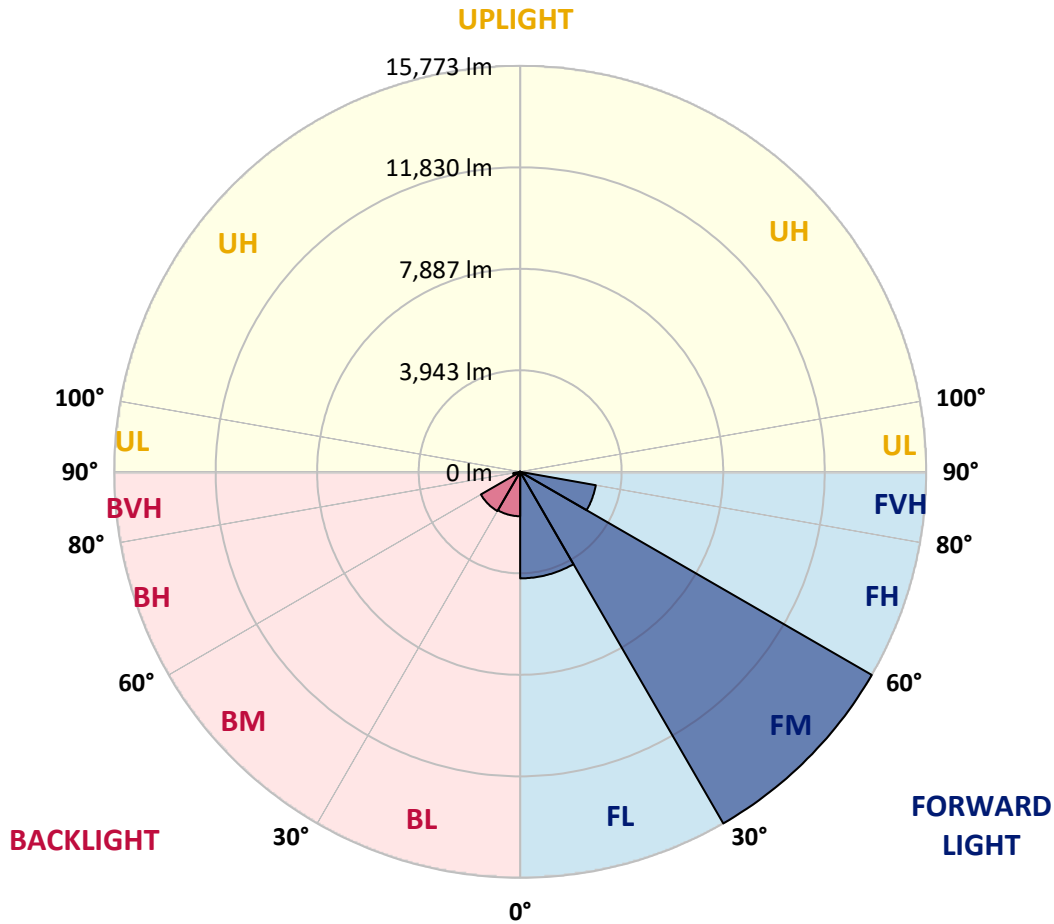


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4140.9	15.5			
FM (30°-60°)	15773.5	59.1			
FH (60°-80°)	2981.5	11.2			G2/5000
FVH (80°-90°)	10.4	0.0			G1/100
BL (0°-30°)	1724.1	6.5	B3/2500		
BM (30°-60°)	1762.8	6.6	B2/2500		
BH (60°-80°)	270.3	1.0	B1/500		G1/500
BVH (80°-90°)	12.5	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	11751.1	11751.1	11751.1	11751.1	11751.1	11751.1	11751.1	11751.1	11751.1	11751.1	11751.1
2.5°	12435.7	12306.7	12316.6	12272.0	12212.5	12257.1	12063.6	12108.3	12103.3	11840.4	11666.8
5°	12123.2	12262.1	12118.2	12237.3	12123.2	12247.2	12128.1	12038.8	11895.0	11701.5	11379.1
7.5°	11592.4	11458.5	11498.2	11647.0	11671.8	11949.6	11800.7	11914.8	11855.3	11473.4	11031.9
10°	10525.9	10496.2	10694.6	10893.0	11136.1	11433.7	11547.8	11483.3	11438.6	11294.8	10704.5
12.5°	9707.5	9791.8	9786.8	10114.2	10525.9	10694.6	10992.2	10982.3	11230.3	10962.4	10397.0
15°	8928.7	8973.3	9181.7	9385.0	9841.4	10322.5	10689.6	10739.2	11036.8	10848.3	10158.9
17.5°	8452.5	8388.0	8551.7	8794.8	9261.0	9891.0	10297.7	10416.8	10823.5	10783.9	9886.0
20°	7981.2	7981.2	8115.2	8402.9	8829.5	9538.8	10263.0	10228.3	10823.5	10709.5	9593.4
22.5°	7822.5	7901.9	7936.6	8154.9	8660.8	9270.9	10114.2	10178.7	10907.9	10674.7	9464.4
25°	8040.8	7936.6	7946.5	8120.1	8596.3	9142.0	10005.1	10148.9	11061.6	10848.3	9360.2
27.5°	8075.5	8179.7	8209.4	8328.5	8645.9	9181.7	10277.9	10570.6	11443.6	11255.1	9390.0
30°	8378.1	8482.2	8477.3	8680.7	8898.9	9504.1	10888.0	10947.6	12232.3	11766.0	9573.5
32.5°	8745.1	8854.3	8889.0	9127.1	9300.7	10094.4	11632.1	11785.9	12991.2	12569.6	10054.7
35°	9201.5	9161.8	9320.6	9558.6	9930.7	10957.5	12539.8	12797.8	13809.7	13611.3	10550.7
37.5°	9771.9	9722.3	9876.1	10263.0	10769.0	11979.3	13378.1	13546.8	14404.9	14578.6	11468.4
40°	10173.7	10193.6	10659.9	11180.7	11716.4	12951.5	13908.9	14072.6	14821.6	15481.3	12162.8
42.5°	10843.4	10967.4	11527.9	12162.8	12723.4	13680.7	14340.5	14499.2	15015.1	16205.6	13100.4
45°	11815.6	11761.1	12381.1	13090.4	13710.5	14439.7	14851.4	14796.8	15129.2	16924.8	13690.6
47.5°	13065.6	13075.6	13487.3	14092.4	14737.3	15099.4	15421.8	15228.4	15367.3	17683.8	14479.3
50°	13918.8	13993.2	14325.6	14945.6	15268.0	15823.6	16235.3	16116.3	16071.6	18140.1	14975.4
52.5°	14137.1	14360.3	14538.9	15312.7	16066.7	16944.7	17470.5	17723.4	16929.8	18293.9	15605.4
55°	12490.2	12688.6	13318.6	14380.1	16369.2	18720.5	19444.7	19449.6	18050.8	18978.4	16046.8
57.5°	9985.2	9583.5	9970.4	11096.4	13839.5	18646.1	20407.0	20173.9	18611.3	18576.6	15664.9
60°	6904.8	6805.6	6830.4	7276.9	9578.5	14831.5	18184.7	18487.3	17138.1	16101.4	12400.9
62.5°	5471.3	5387.0	5277.8	5228.2	5947.5	9241.2	12827.5	13254.1	11984.3	10441.6	7351.3
65°	4285.8	4236.2	4251.0	4449.5	4444.5	5243.1	7014.0	6840.4	5476.3	4047.7	2311.5
67.5°	2891.9	2966.3	3025.8	3626.0	3933.6	3650.8	3387.9	3288.7	1780.8	749.0	510.9
70°	1627.0	1636.9	1701.4	2266.9	2986.1	2832.4	2336.3	2336.3	887.9	272.8	292.7
72.5°	887.9	858.1	798.6	977.2	1329.4	1349.2	1041.7	907.7	262.9	178.6	163.7
75°	431.6	426.6	367.1	302.6	287.7	238.1	183.5	168.7	119.0	114.1	99.2
77.5°	89.3	84.3	44.6	44.6	49.6	54.6	69.4	69.4	84.3	84.3	69.4
80°	0.0	0.0	5.0	19.8	34.7	49.6	59.5	59.5	69.4	69.4	54.6
82.5°	0.0	0.0	5.0	14.9	29.8	44.6	54.6	59.5	69.4	74.4	59.5
85°	0.0	0.0	0.0	9.9	24.8	34.7	29.8	29.8	24.8	19.8	9.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11751.1	11751.1	11751.1	11751.1	11751.1	11751.1	11751.1	11751.1	11751.1	11751.1	11751.1
2.5°	11577.5	11567.6	11339.4	11210.5	10977.3	10773.9	10610.3	10491.2	10491.2	10416.8	10347.3
5°	11250.1	11165.8	10679.7	10367.2	9925.7	9598.3	9375.1	9201.5	8928.7	9003.1	8710.4
7.5°	10843.4	10630.1	9985.2	9509.0	8898.9	8432.6	7956.4	7534.8	7128.1	6944.5	7043.7
10°	10406.9	10034.8	9166.8	8412.8	7653.9	6800.7	6245.1	5570.5	5153.8	5129.0	5019.9
12.5°	9945.6	9523.9	8467.4	7425.7	6428.7	5401.9	4553.6	3923.7	3640.9	3328.4	3387.9
15°	9598.3	8973.3	7688.6	6433.6	5109.2	4072.5	3219.3	2733.2	2465.3	2390.9	2366.1
17.5°	9221.3	8551.7	6894.9	5377.1	4008.0	2931.6	2316.5	2083.4	1979.2	1979.2	1964.3
20°	8829.5	8075.5	6106.2	4394.9	3006.0	2187.5	1855.2	1780.8	1775.8	1770.9	1770.9
22.5°	8571.5	7529.9	5391.9	3492.1	2266.9	1751.0	1612.1	1582.4	1602.2	1661.7	1661.7
25°	8298.7	7004.1	4603.2	2693.5	1756.0	1503.0	1423.6	1443.5	1493.1	1547.6	1527.8
27.5°	8020.9	6661.8	3859.2	2113.1	1438.5	1314.5	1284.7	1329.4	1383.9	1433.5	1418.7
30°	7956.4	6294.7	3154.8	1602.2	1235.1	1145.8	1165.7	1205.4	1259.9	1279.8	1299.6
32.5°	8055.7	6007.0	2584.4	1314.5	1076.4	1051.6	1051.6	1071.4	1106.2	1150.8	1135.9
35°	8338.4	5843.3	2043.7	1140.9	987.1	962.3	957.4	977.2	997.0	1011.9	997.0
37.5°	8769.9	5714.4	1671.6	1011.9	927.6	887.9	878.0	873.0	892.9	897.8	907.7
40°	9320.6	5783.8	1418.7	932.6	868.1	823.4	793.7	793.7	793.7	808.5	813.5
42.5°	9915.8	5878.0	1225.2	887.9	813.5	758.9	729.2	719.3	729.2	749.0	744.1
45°	10540.8	6061.6	1101.2	818.5	763.9	694.5	654.8	644.8	669.7	709.3	704.4
47.5°	11126.1	6324.5	1007.0	773.8	714.3	649.8	600.2	590.3	634.9	689.5	694.5
50°	11711.5	6780.8	972.2	739.1	679.6	605.2	560.5	550.6	600.2	669.7	684.5
52.5°	12386.1	7271.9	947.4	694.5	639.9	570.4	520.8	510.9	565.5	654.8	659.7
55°	12827.5	7688.6	927.6	615.1	565.5	515.9	476.2	471.2	530.8	610.1	630.0
57.5°	12311.7	7108.2	858.1	535.7	481.2	456.4	421.6	421.6	471.2	545.6	560.5
60°	9335.4	4677.6	610.1	431.6	406.8	391.9	377.0	377.0	416.7	471.2	476.2
62.5°	5466.3	2519.9	391.9	347.2	347.2	332.3	307.5	307.5	347.2	377.0	381.9
65°	1622.0	808.5	317.5	297.6	292.7	267.9	243.1	238.1	267.9	282.7	277.8
67.5°	466.3	372.0	262.9	248.0	243.1	203.4	188.5	183.5	188.5	178.6	173.6
70°	277.8	253.0	203.4	208.3	183.5	148.8	133.9	129.0	119.0	104.2	94.2
72.5°	153.8	153.8	148.8	158.7	129.0	99.2	84.3	69.4	54.6	44.6	39.7
75°	94.2	99.2	104.2	109.1	84.3	64.5	54.6	34.7	19.8	9.9	9.9
77.5°	64.5	69.4	74.4	79.4	69.4	59.5	44.6	24.8	5.0	0.0	0.0
80°	49.6	54.6	64.5	69.4	74.4	79.4	59.5	24.8	5.0	0.0	0.0
82.5°	54.6	59.5	74.4	69.4	69.4	69.4	54.6	24.8	5.0	0.0	0.0
85°	9.9	14.9	24.8	24.8	34.7	44.6	34.7	9.9	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)