

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: P191839

Luminaire Tested: **GLEON-AF-01-LED-E1-SL2-7050-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191839
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-SL2-7050-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4171 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 44
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: 25 FT

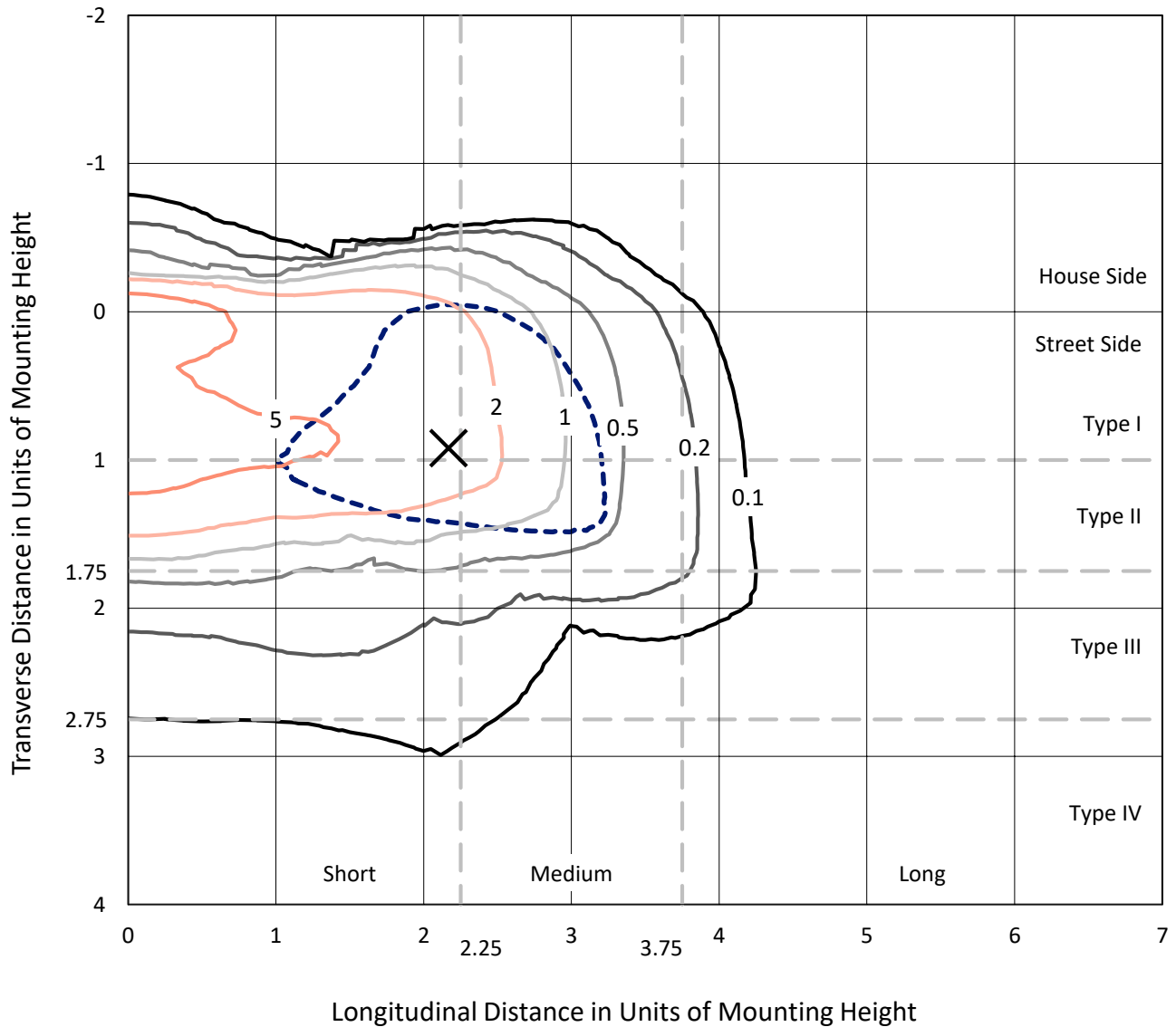


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

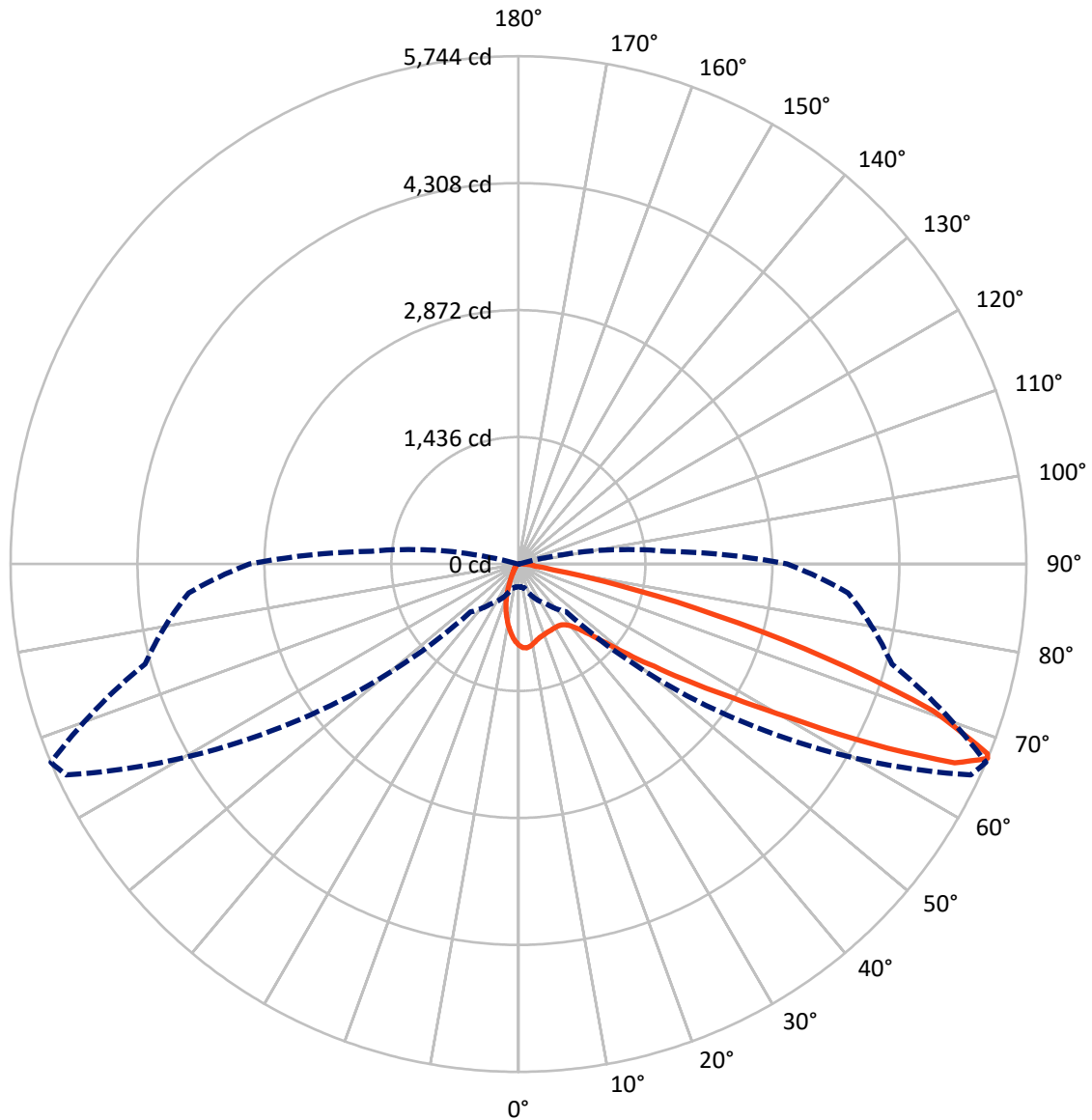


Based on 10 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	433.1	0.0	433.1
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	3737.9	0.0	3737.9
	% Fixture	89.6	0.0	89.6
Total	Lumens	4171.0	0.0	4171.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.8	1.8
10°-20°	159.3	3.8
20°-30°	231.6	5.6
30°-40°	361.3	8.7
40°-50°	640.1	15.3
50°-60°	1012.9	24.3
60°-70°	1160.1	27.8
70°-80°	481.2	11.5
80°-90°	49.7	1.2
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°	4171.0	100.0
0°-180°	4171.0	100.0

Coefficient of Utilization



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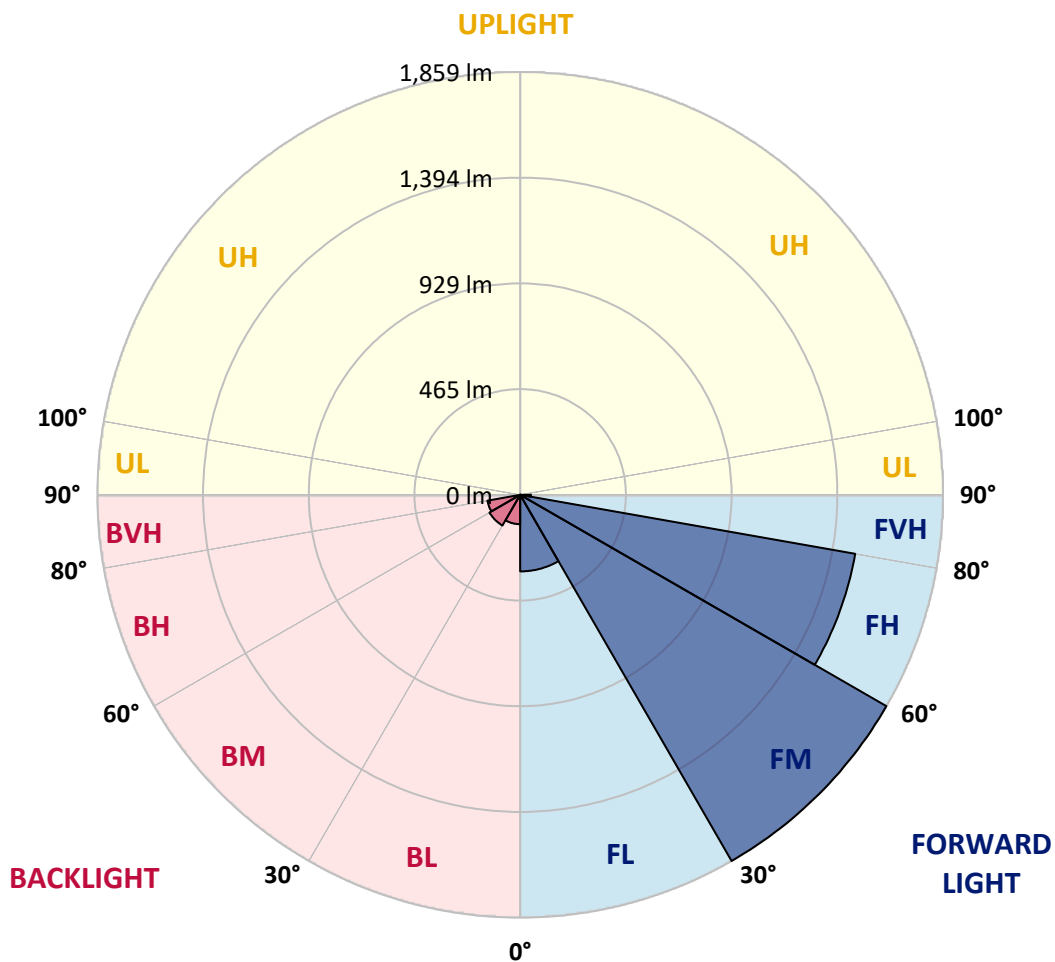
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	336.5	8.1			
FM	(30°-60°)	1858.6	44.6			
FH	(60°-80°)	1495.3	35.9			G1/1800
FVH	(80°-90°)	47.5	1.1			G1/100
BL	(0°-30°)	129.2	3.1	B1/500		
BM	(30°-60°)	155.6	3.7	B0/220		
BH	(60°-80°)	146.0	3.5	B1/500		G1/500
BVH	(80°-90°)	2.2	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	919.9	919.9	919.9	919.9	919.9	919.9	919.9	919.9	919.9	919.9	919.9
2.5°	951.0	952.9	952.7	954.2	957.6	957.8	954.4	947.8	946.4	937.9	923.0
5°	877.0	882.6	886.0	899.9	915.5	934.2	948.3	953.4	952.7	946.6	924.2
7.5°	792.6	798.2	802.1	818.4	839.1	871.2	907.9	938.1	940.8	947.4	923.3
10°	736.4	737.4	742.7	758.3	780.0	812.8	856.6	909.4	917.4	941.5	920.8
12.5°	690.2	690.9	698.0	714.8	737.9	771.0	817.0	878.0	890.4	934.2	920.3
15°	657.4	660.0	666.4	683.9	708.4	741.3	788.5	854.9	869.7	931.5	924.7
17.5°	646.4	649.3	651.3	663.9	686.3	718.4	766.8	839.8	856.6	933.0	933.2
20°	657.8	660.0	655.7	658.8	672.7	701.4	748.6	826.9	846.9	934.7	944.2
22.5°	700.4	701.4	689.5	675.6	673.2	689.0	734.2	816.7	838.1	939.3	957.1
25°	773.4	771.7	752.2	722.3	694.1	686.8	725.7	810.4	833.7	944.2	970.5
27.5°	861.5	863.9	837.1	793.6	739.8	701.4	724.5	807.7	831.8	947.6	982.1
30°	968.5	971.9	941.3	886.5	809.4	737.4	735.7	807.2	830.6	945.4	983.1
32.5°	1077.8	1081.9	1057.8	1001.4	902.3	797.7	761.0	812.6	833.0	937.9	977.5
35°	1192.1	1197.9	1181.9	1133.5	1028.4	884.8	805.5	828.9	844.4	937.1	971.9
37.5°	1350.0	1355.3	1325.2	1273.8	1180.9	1001.6	877.0	859.5	871.4	948.8	973.4
40°	1585.7	1585.0	1507.1	1428.6	1348.5	1150.0	977.5	915.0	921.1	984.1	991.4
42.5°	1842.6	1841.4	1726.3	1606.9	1534.6	1332.7	1109.6	1010.8	1006.7	1049.0	1038.1
45°	2040.7	2040.4	1946.5	1812.0	1758.7	1542.4	1280.4	1144.2	1137.8	1154.6	1124.2
47.5°	2125.1	2126.6	2079.4	1984.7	2007.1	1826.1	1495.7	1337.3	1327.8	1321.0	1274.8
50°	2059.4	2062.3	2066.2	2047.7	2189.3	2207.3	1784.5	1609.6	1604.9	1574.5	1502.3
52.5°	1844.8	1859.7	1905.4	1964.0	2252.6	2573.2	2237.2	1947.7	1922.9	1890.6	1811.0
55°	1483.3	1499.6	1586.5	1728.8	2158.4	2813.6	2871.7	2383.7	2342.3	2245.8	2130.9
57.5°	981.7	1007.0	1133.0	1314.0	1885.0	2852.3	3504.8	2988.8	2844.7	2580.3	2450.9
60°	540.8	565.2	701.9	865.9	1361.4	2661.0	3930.5	3776.5	3522.0	2954.2	2839.4
62.5°	333.1	346.2	447.2	599.7	816.5	2100.3	4018.6	4766.4	4471.8	3435.7	3308.7
65°	265.2	270.8	320.2	490.2	585.3	1249.3	3734.2	5521.1	5422.8	4018.6	3728.8
67°	257.4	259.6	282.9	420.9	551.8	765.9	3128.4	5644.0	5743.7	4371.3	3742.0
67.5°	259.1	261.5	283.7	401.7	550.8	703.8	2919.7	5595.5	5721.6	4399.3	3683.8
70°	249.9	257.4	324.8	401.4	523.8	584.9	1748.5	4848.2	4979.3	4087.7	3125.7
72.5°	88.6	89.0	140.4	324.8	569.5	591.2	878.0	3554.1	3651.2	3126.9	2253.5
75°	52.5	44.8	46.7	92.4	544.2	574.2	506.5	2271.1	2307.3	1791.8	1141.2
77.5°	36.2	31.6	32.6	40.9	207.3	566.1	402.4	1184.3	1145.6	628.4	243.0
80°	20.7	18.2	19.5	35.8	75.4	528.2	379.5	480.2	409.4	106.6	67.1
82.5°	10.9	9.2	11.2	29.4	52.5	329.2	380.3	232.1	183.9	36.0	45.7
85°	3.9	3.2	5.4	20.2	35.0	101.0	352.5	195.1	153.3	17.5	34.8
87.5°	0.7	0.7	2.2	8.3	14.1	30.9	208.5	115.8	77.6	10.5	23.8
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°	919.9	919.9	919.9	919.9	919.9	919.9	919.9	919.9	919.9	919.9	919.9
2.5°	916.9	906.5	892.4	875.1	854.7	836.7	823.3	809.4	806.5	801.6	800.9
5°	910.9	892.9	857.8	817.7	774.9	736.2	704.8	676.8	664.4	653.7	652.5
7.5°	901.9	874.9	815.2	750.5	683.6	622.8	571.2	534.7	501.2	485.1	482.7
10°	891.4	852.7	767.3	677.5	585.1	499.2	422.6	358.4	319.4	296.3	293.4
12.5°	881.7	831.1	718.4	601.9	479.0	364.2	265.7	204.4	163.5	146.9	145.0
15°	877.0	813.5	672.7	524.5	368.1	231.9	145.2	112.4	99.0	95.1	94.9
17.5°	876.6	798.7	627.9	444.5	257.9	134.8	94.6	86.4	83.7	82.7	82.7
20°	876.3	784.6	583.2	361.5	163.7	89.8	78.8	76.9	74.9	73.7	73.7
22.5°	879.0	771.9	536.4	276.9	103.2	72.7	69.3	67.4	65.0	63.3	63.0
25°	881.7	762.2	488.8	197.1	74.7	63.3	59.8	57.2	53.8	51.6	51.3
27.5°	882.2	750.0	437.7	131.9	62.5	55.2	50.8	46.7	42.8	40.6	40.4
30°	874.9	729.6	381.0	89.0	55.2	47.9	42.1	37.7	34.1	32.4	32.4
32.5°	860.5	704.3	318.7	67.1	49.1	41.1	34.8	30.7	28.2	27.5	27.2
35°	847.6	677.1	254.7	56.9	44.0	34.8	28.5	25.8	24.3	24.1	23.8
37.5°	840.1	655.2	194.6	51.6	39.2	29.2	24.1	22.1	21.4	20.9	21.2
40°	845.9	636.9	143.8	47.2	34.3	24.3	20.4	19.5	18.7	18.5	18.5
42.5°	871.4	633.8	106.8	43.3	29.7	20.2	17.8	17.0	16.5	16.3	16.5
45°	938.6	653.2	83.0	39.7	25.1	17.0	15.1	14.8	14.6	14.6	14.6
47.5°	1039.6	693.4	69.1	35.5	20.9	14.6	13.1	12.9	12.7	12.9	12.9
50°	1210.6	766.8	61.8	31.4	17.3	12.4	11.2	11.2	11.2	11.2	11.4
52.5°	1470.7	911.3	56.9	27.2	14.1	10.5	9.5	9.5	9.7	9.7	10.0
55°	1760.4	1103.1	52.5	23.1	11.9	8.8	7.8	8.0	8.3	8.5	8.5
57.5°	2074.7	1315.4	48.9	19.0	10.2	7.1	6.6	6.8	7.1	7.5	7.5
60°	2454.0	1545.3	43.5	14.8	8.5	5.6	5.1	5.6	6.3	6.8	7.1
62.5°	2870.5	1767.7	36.7	11.7	7.1	4.4	4.1	5.1	6.1	6.6	6.8
65°	3155.2	1837.5	28.2	9.5	5.4	3.2	3.4	4.6	5.8	6.6	6.6
67°	3039.8	1666.0	23.1	8.0	4.4	2.4	3.2	4.6	5.8	6.3	6.6
67.5°	2959.8	1598.9	22.1	7.8	4.1	2.4	3.2	4.6	5.8	6.6	6.6
70°	2408.3	1201.1	18.5	5.8	3.4	2.2	2.7	4.4	5.6	6.3	6.3
72.5°	1673.3	740.6	16.5	4.1	2.9	1.9	2.4	4.1	5.4	6.1	6.3
75°	795.5	268.1	14.1	3.2	2.7	1.7	2.2	4.1	5.4	6.1	6.1
77.5°	162.3	62.3	11.4	2.7	2.2	1.7	1.9	3.9	5.1	5.8	5.8
80°	53.3	24.1	8.5	2.4	2.2	1.7	1.9	3.6	5.1	5.6	5.8
82.5°	38.4	12.2	5.6	2.4	2.2	1.7	1.7	3.6	4.9	5.6	5.6
85°	29.4	8.5	3.6	2.4	2.2	1.7	1.7	3.4	4.6	5.4	5.4
87.5°	19.5	3.4	2.9	2.4	2.2	1.7	1.7	3.4	4.4	5.1	5.4
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)