

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: P383400

Luminaire Tested: **GLEON-SA7A-735-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383400
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7A-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24785.7 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

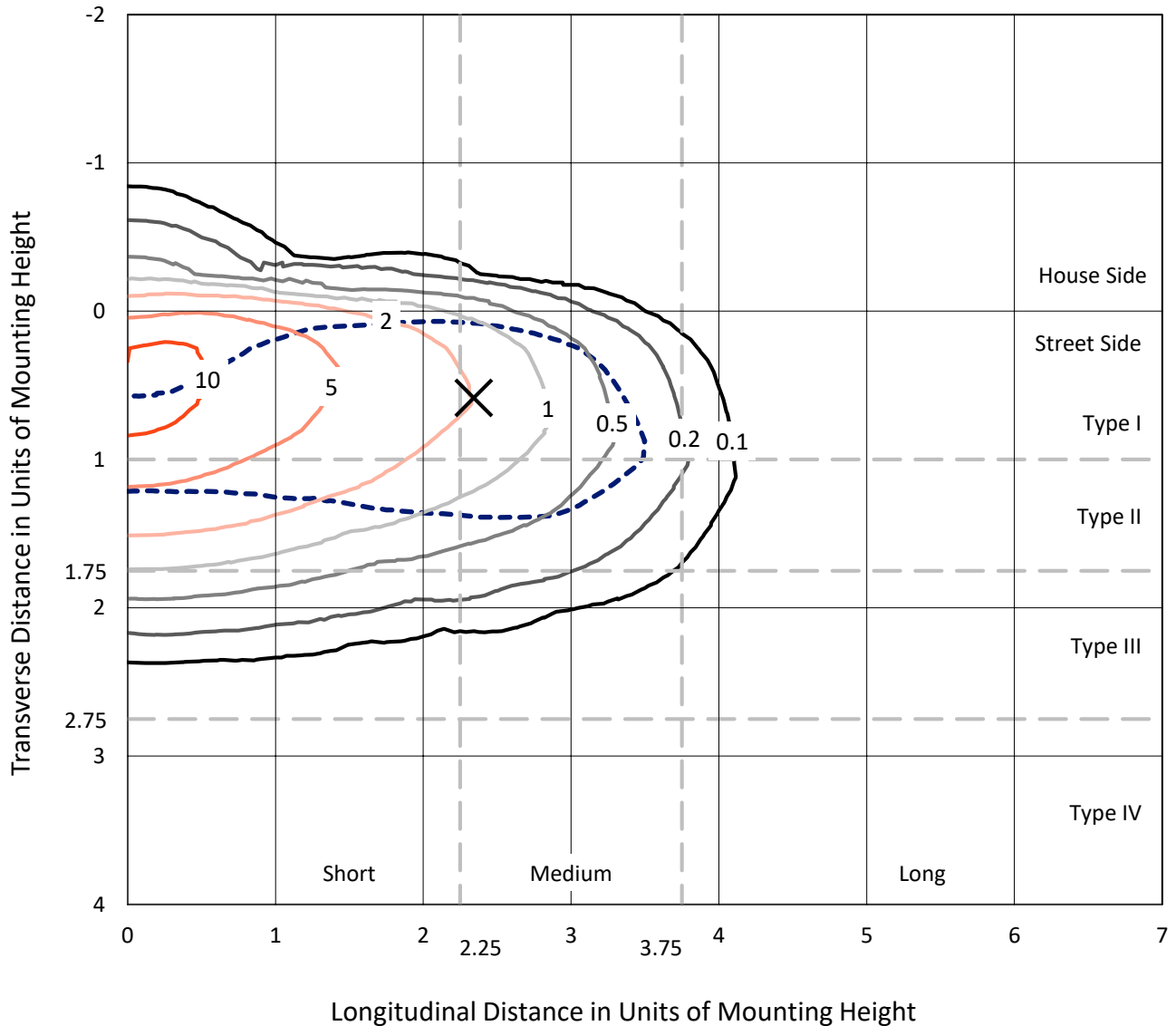
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

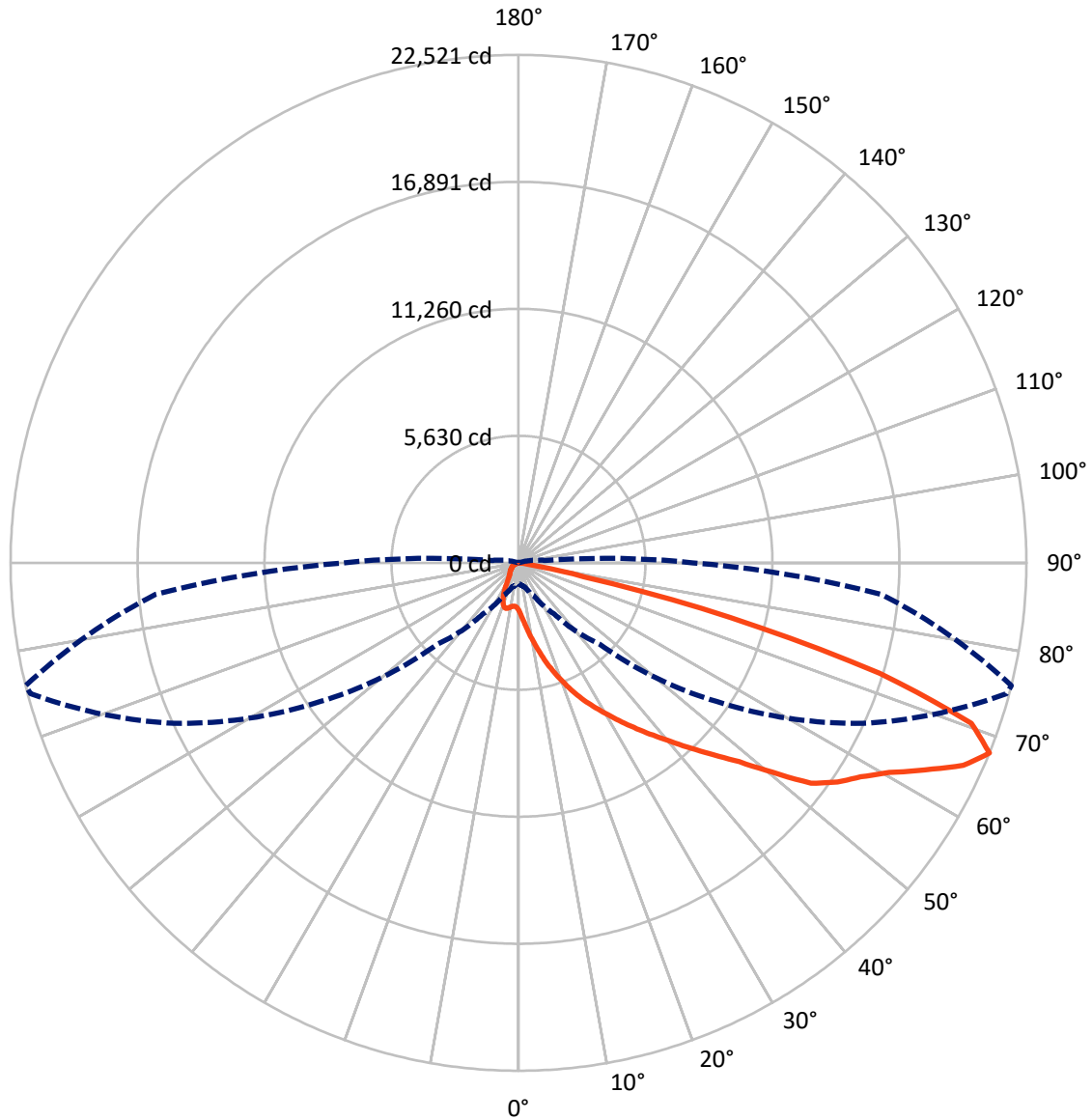
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1230.8	0.0	1230.8
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	23554.9	0.0	23554.9
	% Fixture	95.0	0.0	95.0
Total	Lumens	24785.7	0.0	24785.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.4	1.1
10°-20°	1036.4	4.2
20°-30°	2108.8	8.5
30°-40°	3660.1	14.8
40°-50°	5171.3	20.9
50°-60°	5864.5	23.7
60°-70°	4864.0	19.6
70°-80°	1761.9	7.1
80°-90°	57.1	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°	24785.7	100.0
0°-180°	24785.7	100.0

Coefficient of Utilization

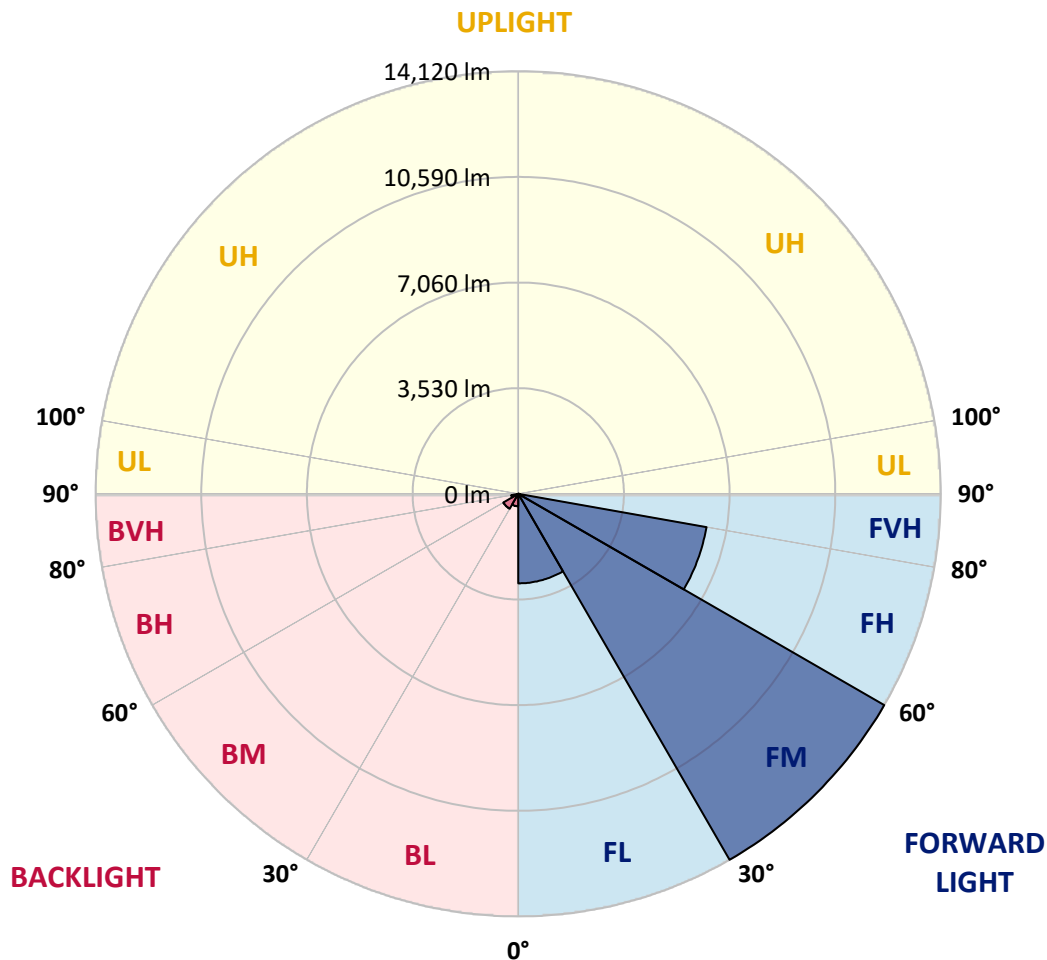


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2991.5	12.1			
FM (30°-60°)	14119.9	57.0			
FH (60°-80°)	6388.1	25.8			G3/7500
FVH (80°-90°)	55.3	0.2			G1/100
BL (0°-30°)	415.1	1.7	B1/500		
BM (30°-60°)	576.0	2.3	B1/1000		
BH (60°-80°)	237.9	1.0	B1/500		G1/500
BVH (80°-90°)	1.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2102.5	2102.5	2102.5	2102.5	2102.5	2102.5	2102.5	2102.5	2102.5	2102.5	2102.5
2.5°	3138.6	3068.1	3084.4	3038.7	2956.2	2786.7	2642.3	2505.5	2345.8	2340.4	2209.0
5°	4232.2	4172.5	4164.9	4072.6	3922.7	3634.9	3354.7	3035.4	2679.2	2653.1	2374.0
7.5°	5224.9	5177.1	5159.7	5050.0	4770.9	4490.7	4125.8	3656.6	3099.5	3051.7	2596.7
10°	5987.2	5964.4	5968.8	5890.6	5651.7	5391.1	4912.1	4313.7	3576.3	3502.4	2863.9
12.5°	6565.0	6570.5	6609.5	6561.7	6428.1	6234.8	5723.3	5014.1	4104.1	4003.0	3169.0
15°	6989.7	7016.8	7088.5	7148.2	7138.4	6971.2	6502.0	5725.5	4664.4	4552.7	3509.0
17.5°	7264.4	7294.9	7399.1	7531.6	7653.2	7614.1	7253.6	6411.9	5231.4	5102.2	3872.7
20°	7505.5	7541.3	7653.2	7828.1	8055.1	8103.9	7867.2	7077.6	5797.2	5639.7	4248.5
22.5°	8027.9	8026.8	8095.2	8197.3	8413.5	8539.4	8389.5	7695.6	6356.5	6192.6	4631.9
25°	8972.8	8936.9	8913.0	8832.7	8880.4	8958.6	8875.0	8273.4	6919.1	6752.9	5020.7
27.5°	10095.6	10117.4	9924.1	9707.9	9540.7	9460.3	9323.5	8808.7	7459.9	7277.4	5400.8
30°	11280.6	11287.1	11059.0	10783.1	10415.0	10109.8	9873.0	9320.2	8016.0	7817.2	5770.0
32.5°	12349.2	12306.9	12081.0	11705.2	11240.3	10897.2	10405.2	9891.5	8604.6	8412.3	6180.5
35°	13196.3	13146.4	12871.6	12529.5	12047.2	11701.9	11110.0	10461.7	9223.6	9035.7	6592.2
37.5°	13815.3	13756.7	13474.3	13122.4	12706.5	12505.6	11927.8	11081.8	9899.1	9697.1	7025.5
40°	14030.3	13979.3	13802.3	13544.9	13210.4	13164.8	12795.6	11795.3	10634.4	10419.4	7516.4
42.5°	13902.2	13852.2	13789.2	13702.4	13563.3	13606.8	13614.4	12608.8	11451.0	11239.3	8058.3
45°	13394.0	13349.4	13414.6	13541.6	13714.3	13929.3	14361.6	13483.0	12363.3	12137.4	8684.9
47.5°	12645.7	12613.1	12793.4	13110.5	13615.5	14208.4	15044.7	14401.8	13387.5	13177.9	9466.9
50°	11581.4	11576.0	11936.5	12515.3	13291.9	14343.1	15750.6	15446.5	14810.1	14589.6	10554.0
52.5°	9924.1	9935.0	10644.1	11570.5	12723.8	14251.9	16204.5	16788.8	16465.2	16236.0	11495.6
55°	8346.1	8411.2	8914.1	10249.9	11852.9	13913.0	16361.0	17415.5	17378.6	17161.3	12019.0
57.5°	6800.7	6919.1	7403.5	8651.3	10581.2	13132.2	16275.2	17687.0	18058.4	17892.2	12709.8
60°	5126.0	5180.3	5738.5	6904.9	8948.8	11707.3	15652.9	17834.7	18988.0	18873.0	13712.2
62.5°	3261.3	3397.1	3892.3	5017.4	6968.0	9728.6	14603.8	17832.5	20151.2	20214.2	15005.6
65°	1718.1	1876.7	2139.5	3109.3	4788.2	7518.5	13025.7	17665.3	21578.2	21666.2	16016.7
67.5°	926.4	972.0	1111.0	1613.8	2776.9	5093.4	10707.1	16839.9	22404.7	22520.9	16157.9
70°	677.7	702.7	754.8	892.7	1397.7	2958.3	7812.9	14968.7	21339.3	21295.8	14356.2
72.5°	520.2	559.3	598.4	653.8	803.6	1579.1	4864.3	11721.5	17026.7	16740.0	10731.1
75°	410.5	417.1	472.4	522.4	602.7	899.2	2160.1	6826.8	10392.2	9713.4	5564.8
77.5°	328.0	332.3	364.9	408.4	484.4	590.8	669.0	2685.7	3317.8	2960.5	1207.7
80°	194.4	205.2	271.5	315.0	401.9	372.5	244.3	583.1	518.0	469.1	203.1
82.5°	108.6	117.3	153.1	248.7	280.2	178.1	121.7	157.4	121.7	118.4	57.6
85°	0.0	5.4	98.8	154.2	114.0	39.1	51.0	52.2	35.9	33.6	22.8
87.5°	0.0	0.0	30.4	29.3	4.4	6.5	11.9	17.4	14.2	14.2	11.9
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°	2102.5	2102.5	2102.5	2102.5	2102.5	2102.5	2102.5	2102.5	2102.5	2102.5	2102.5
2.5°	2143.8	2085.2	1974.4	1865.8	1774.6	1699.6	1632.3	1605.1	1583.4	1580.2	1562.8
5°	2239.3	2121.0	1909.2	1735.5	1619.3	1536.7	1466.2	1422.7	1389.0	1376.0	1364.1
7.5°	2383.8	2204.6	1900.5	1700.7	1561.7	1422.7	1292.3	1151.2	1063.2	1029.5	1010.0
10°	2559.8	2315.4	1933.1	1690.9	1447.6	1154.5	938.3	759.1	686.4	662.5	656.0
12.5°	2765.0	2453.3	1989.6	1630.1	1204.4	819.9	647.2	586.4	570.2	562.6	562.6
15°	3000.7	2604.3	2029.7	1454.1	890.6	620.1	560.4	532.2	514.8	505.0	506.1
17.5°	3241.8	2752.0	2010.2	1199.0	657.0	551.7	507.1	476.8	452.9	443.1	440.9
20°	3485.0	2888.8	1901.7	892.7	556.0	500.6	450.7	417.1	393.1	383.3	381.2
22.5°	3737.0	3005.0	1710.5	654.9	499.6	444.2	395.3	361.6	338.8	330.1	325.8
25°	3982.5	3099.5	1443.3	530.0	446.4	391.0	344.3	312.8	292.1	283.5	282.4
27.5°	4211.6	3159.3	1133.8	468.1	399.6	343.2	300.8	272.6	255.2	248.7	247.6
30°	4418.0	3164.7	838.4	422.5	358.4	301.9	262.8	237.8	222.6	216.1	214.0
32.5°	4626.4	3119.1	610.3	381.2	320.4	266.0	228.0	208.5	197.7	192.3	192.3
35°	4823.0	3013.7	475.6	345.3	283.5	231.3	200.9	186.8	180.3	174.9	174.9
37.5°	5015.3	2862.7	404.0	313.8	248.7	202.0	177.0	168.3	162.9	157.4	157.4
40°	5210.7	2672.7	367.1	284.5	220.5	179.2	157.4	149.9	144.5	140.1	139.0
42.5°	5450.8	2453.3	343.2	257.4	195.4	158.5	139.0	130.3	125.9	121.7	119.4
45°	5728.7	2264.4	323.6	230.3	174.9	141.2	120.5	111.9	105.4	100.0	98.8
47.5°	6129.5	2127.6	297.5	200.9	155.3	122.7	104.2	94.5	84.7	79.3	78.2
50°	6641.0	2014.6	263.9	174.9	135.7	104.2	86.9	74.9	66.2	60.8	60.8
52.5°	6895.1	1866.9	233.5	152.0	114.0	87.9	70.6	56.5	52.2	46.7	46.7
55°	6997.2	1753.9	203.1	129.2	94.5	72.8	55.4	43.4	40.1	36.9	35.9
57.5°	7284.0	1721.3	177.0	109.6	78.2	57.6	42.4	32.6	30.4	26.1	26.1
60°	7745.5	1737.6	153.1	93.4	63.0	44.5	31.5	25.0	22.8	18.4	18.4
62.5°	8244.0	1717.0	129.2	80.4	48.9	32.6	21.7	18.4	18.4	10.9	9.8
65°	8339.6	1529.1	110.8	66.2	38.0	23.8	14.2	11.9	16.3	2.1	0.0
67.5°	7740.1	1186.0	95.6	51.0	28.2	18.4	10.9	5.4	14.2	0.0	0.0
70°	6189.3	753.7	77.1	36.9	21.7	15.2	8.7	2.1	10.9	0.0	0.0
72.5°	4376.7	437.6	60.8	26.1	18.4	11.9	6.5	0.0	6.5	0.0	0.0
75°	2213.4	233.5	38.0	19.6	14.2	8.7	4.4	0.0	1.1	0.0	0.0
77.5°	478.9	108.6	23.8	14.2	9.8	5.4	2.1	0.0	0.0	0.0	0.0
80°	104.2	47.8	15.2	8.7	5.4	3.3	0.0	0.0	0.0	0.0	0.0
82.5°	38.0	25.0	7.6	4.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.7	13.0	4.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.9	4.4	1.1	1.1	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)