

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: P382648

Luminaire Tested: **GLEON-SA0B-735-U-T3R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382648  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA0B-735-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40524.2 lumens  
Efficiency: N/A  
Efficacy: 96.7 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

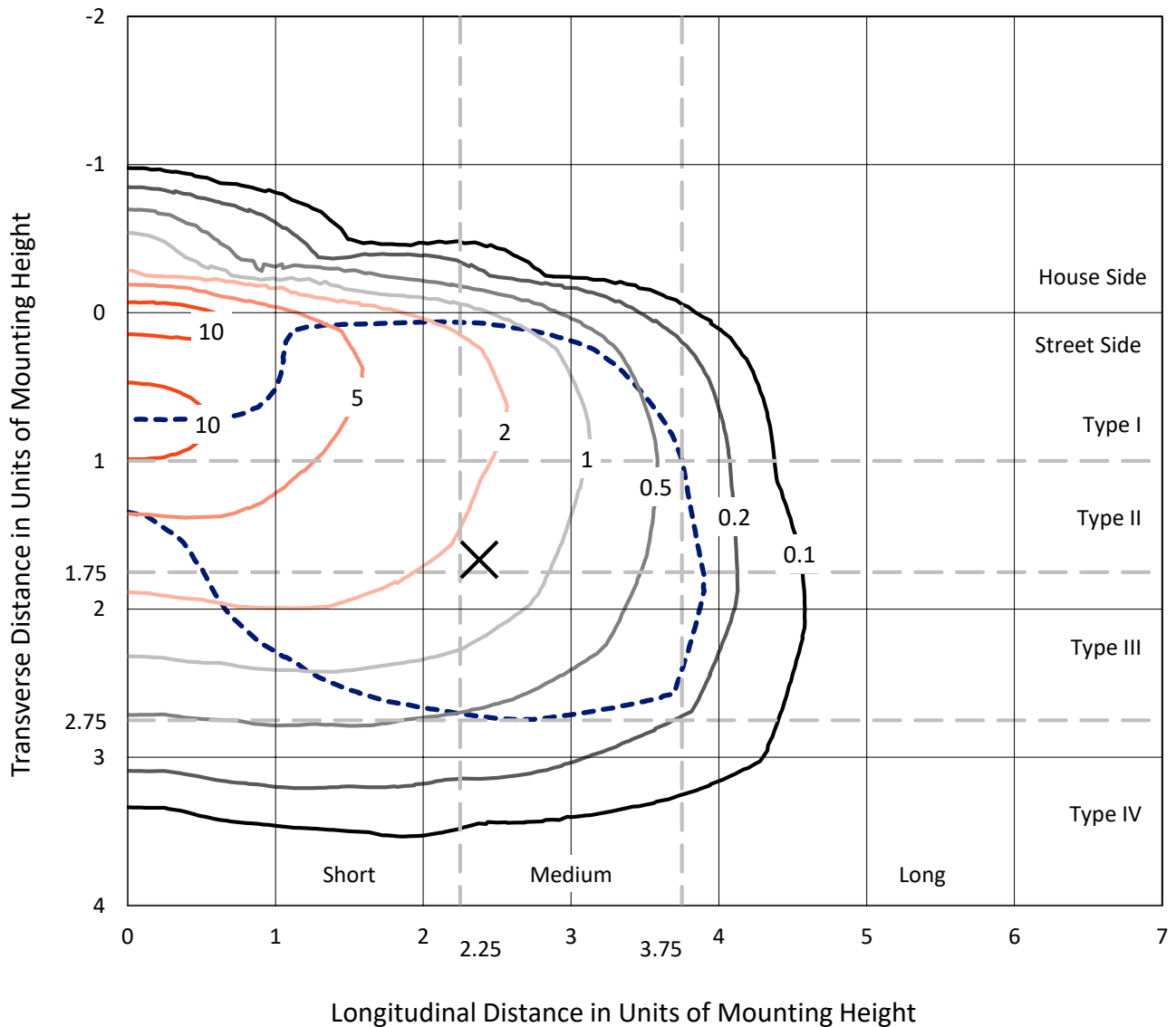
Input Watts (W): 419  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

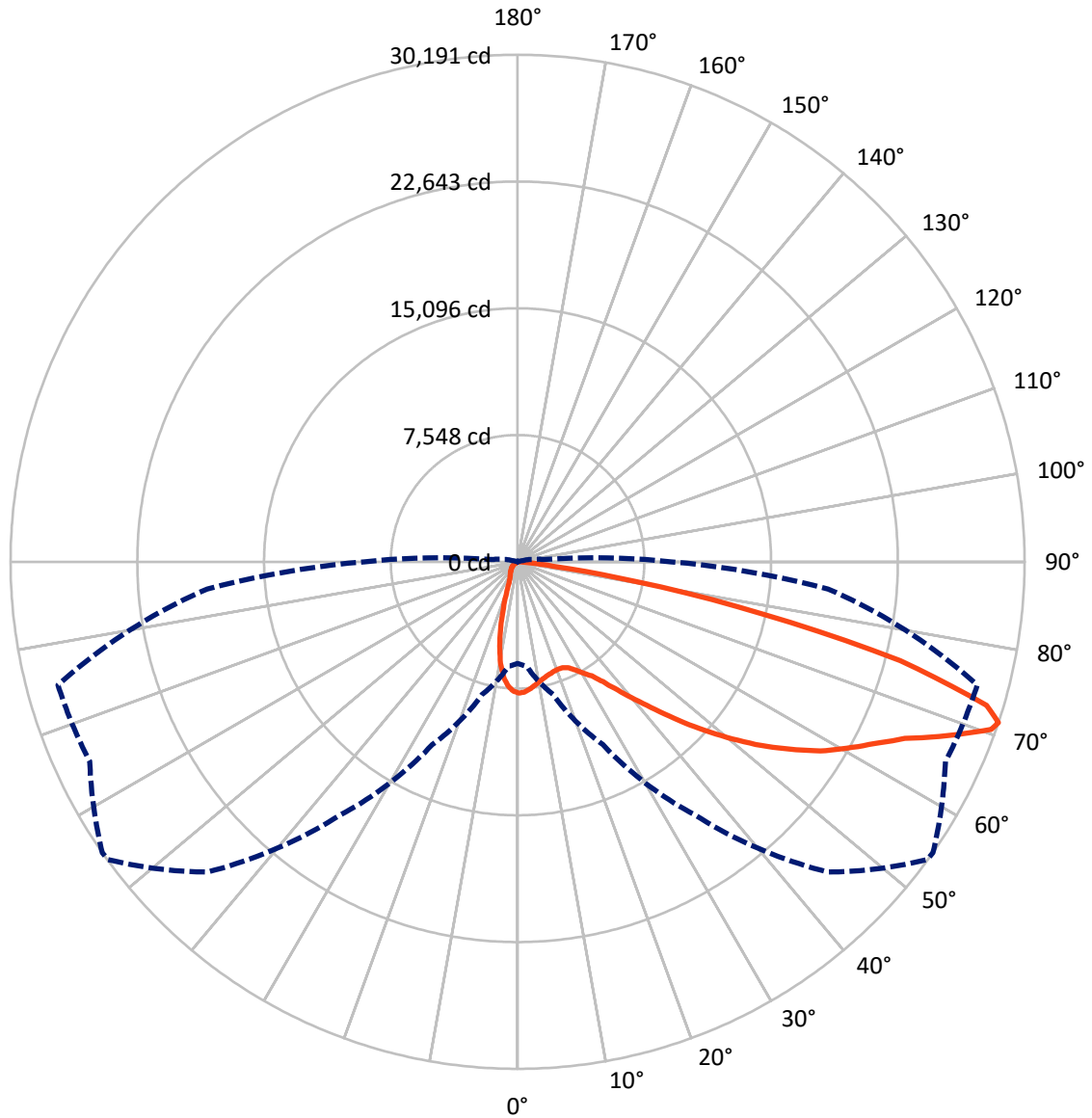
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3208.4	0.0	3208.4
	% Fixture	7.9	0.0	7.9
<b>Street Side</b>	Lumens	37315.8	0.0	37315.8
	% Fixture	92.1	0.0	92.1
<b>Total</b>	Lumens	40524.2	0.0	40524.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	666.4	1.6
10°-20°	1504.3	3.7
20°-30°	2417.5	6.0
30°-40°	4107.5	10.1
40°-50°	6375.4	15.7
50°-60°	8571.5	21.2
60°-70°	10485.8	25.9
70°-80°	6130.8	15.1
80°-90°	265.0	0.7
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°	40524.2	100.0
0°-180°	40524.2	100.0

**Coefficient of Utilization**

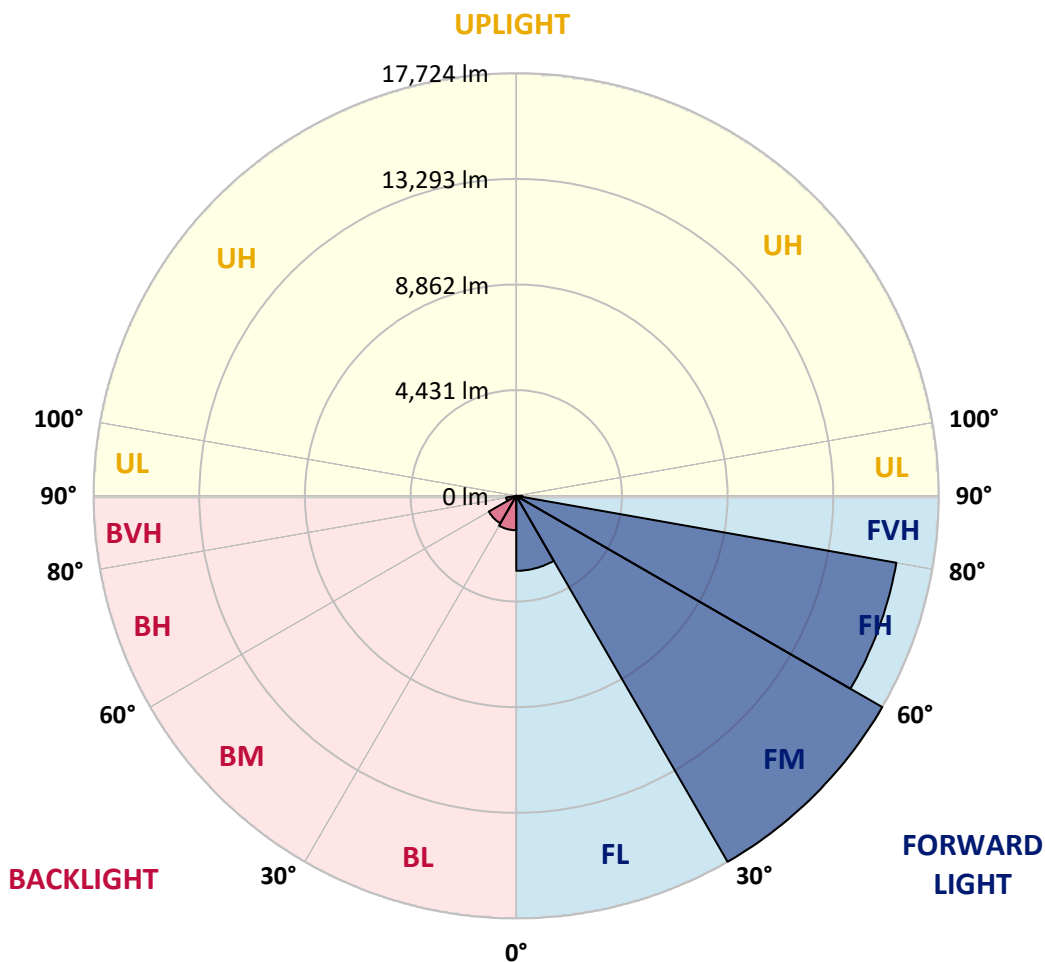


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3144.1	7.8			
FM (30°-60°)	17724.1	43.7			
FH (60°-80°)	16186.7	39.9			G5
FVH (80°-90°)	260.8	0.6			G3/500
BL (0°-30°)	1444.1	3.6	B3/2500		
BM (30°-60°)	1330.3	3.3	B2/2500		
BH (60°-80°)	429.9	1.1	B1/500		G1/500
BVH (80°-90°)	4.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7815.2	7815.2	7815.2	7815.2	7815.2	7815.2	7815.2	7815.2	7815.2	7815.2	7815.2
2.5°	7586.0	7595.1	7627.8	7642.4	7677.0	7735.2	7764.3	7766.1	7813.4	7831.6	7846.1
5°	7049.2	7103.8	7158.4	7216.6	7322.2	7462.3	7600.5	7613.3	7766.1	7878.9	7938.9
7.5°	6587.0	6636.2	6701.6	6794.4	6943.7	7163.8	7394.9	7422.2	7711.5	7968.1	8102.7
10°	6112.1	6152.1	6246.8	6383.2	6588.8	6883.6	7194.7	7240.3	7662.4	8088.2	8324.7
12.5°	5604.4	5628.0	5742.7	5939.2	6241.3	6616.1	7025.5	7085.5	7631.4	8226.5	8586.7
15°	5218.6	5229.5	5338.7	5542.5	5888.2	6375.9	6894.5	6967.3	7638.7	8392.0	8872.4
17.5°	5120.3	5125.8	5184.1	5324.2	5629.9	6161.2	6790.8	6879.9	7660.6	8554.0	9159.9
20°	5518.9	5480.7	5420.6	5398.8	5529.8	6032.1	6728.9	6829.0	7689.6	8697.8	9418.3
22.5°	6612.5	6499.7	6250.4	5917.4	5715.4	6041.1	6745.3	6845.4	7782.5	8874.3	9716.7
25°	8235.5	8079.0	7655.1	7000.0	6370.5	6303.1	6881.8	6983.6	7962.6	9085.3	10002.4
27.5°	10082.5	9927.8	9409.2	8473.9	7400.4	6821.7	7194.7	7289.4	8230.1	9272.7	10220.8
30°	11851.1	11807.5	11196.1	10133.4	8695.9	7662.4	7598.7	7678.7	8428.5	9385.5	10393.6
32.5°	13350.5	13281.4	12790.1	11756.5	10178.9	8672.2	8073.6	8097.3	8577.7	9531.1	10619.3
35°	14740.7	14655.2	14223.9	13246.8	11700.1	9906.0	8805.1	8770.5	8903.4	9824.1	10946.8
37.5°	15954.3	16032.6	15554.1	14624.2	13064.8	11188.8	9791.3	9687.6	9412.8	10300.9	11421.7
40°	16969.7	16969.7	16720.4	15945.3	14538.7	12515.2	10906.7	10770.3	10178.9	11036.0	12024.0
42.5°	17335.4	17413.7	17506.5	17068.0	15857.9	13894.6	12149.5	12007.6	11257.9	12078.5	12784.6
45°	17357.2	17481.0	17956.0	17954.1	17049.7	15264.7	13550.7	13483.3	12640.8	13417.8	13727.2
47.5°	17049.7	17204.5	17986.9	18430.9	17994.1	16540.3	15082.8	14999.0	14265.7	15059.1	14713.4
50°	16574.8	16745.9	17655.7	18618.3	18636.4	17650.2	16696.8	16571.2	16054.5	16935.2	15732.3
52.5°	15725.1	16056.2	17359.1	18662.0	19058.6	18609.2	18232.5	18177.9	18056.0	18742.0	16543.9
55°	13907.3	14274.8	16614.9	18676.5	19449.9	19458.9	19671.9	19686.4	19932.0	20430.6	17148.0
57.5°	13048.5	13255.8	15315.7	18745.6	20030.3	20423.3	21138.4	21251.2	21631.6	22033.7	17837.6
60°	12508.0	12753.6	14675.1	18651.0	20941.9	21687.9	22497.7	22535.9	22943.5	23687.7	18771.1
62.5°	12076.8	12318.8	14271.2	18287.1	21966.4	23209.1	23826.0	23829.6	24135.4	25658.4	19832.0
65°	11012.3	11216.1	13454.2	17877.7	22643.2	24714.0	25369.0	25345.4	25594.6	27736.4	21063.9
67.5°	9472.9	9629.4	11785.7	16325.6	22388.5	26082.3	27698.2	27619.9	27317.8	29532.3	21547.8
70°	7323.9	7380.4	9289.1	13605.3	20001.2	26608.2	29949.0	29908.9	28375.0	29210.3	19773.7
71°	6053.8	6239.4	8186.4	12007.6	18401.7	26122.4	30167.3	30191.0	28109.4	28333.2	18552.8
72.5°	3515.5	3673.8	5933.8	9221.8	15623.2	24095.3	29035.6	29206.6	26868.3	25771.2	15847.0
75°	753.3	806.1	2199.9	4463.5	8594.0	16887.8	22918.0	23527.5	21899.0	17532.0	9551.2
77.5°	524.1	565.9	942.5	2025.2	2840.4	8344.7	14236.7	14924.4	13083.0	6588.8	3057.0
80°	414.9	462.1	735.1	1000.8	767.9	2691.2	6668.9	7089.2	4363.5	1470.3	515.0
82.5°	231.1	274.8	573.2	540.4	294.7	511.3	1866.9	2110.8	873.4	296.6	121.9
85°	67.4	81.9	369.4	393.0	125.6	98.3	318.4	394.9	165.6	78.2	54.6
87.5°	0.0	0.0	178.3	151.0	36.4	14.5	29.2	32.8	32.8	32.8	36.4
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°	7815.2	7815.2	7815.2	7815.2	7815.2	7815.2	7815.2	7815.2	7815.2	7815.2	7815.2
2.5°	7846.1	7858.9	7813.4	7753.4	7689.6	7611.4	7529.5	7465.9	7464.0	7433.1	7402.2
5°	7942.6	7935.3	7809.8	7618.8	7393.0	7158.4	6934.5	6681.6	6597.9	6494.2	6459.6
7.5°	8121.0	8070.0	7804.3	7385.8	6890.8	6399.5	5891.9	5380.6	5162.3	4965.7	4931.1
10°	8344.7	8248.3	7769.8	7036.4	6128.5	5222.3	4456.2	3761.1	3455.5	3220.7	3209.8
12.5°	8577.7	8430.2	7673.3	6508.7	5129.5	3855.8	2973.2	2289.1	2034.3	1870.5	1885.1
15°	8821.5	8601.4	7465.9	5797.3	3992.2	2616.6	1826.9	1424.8	1322.9	1281.0	1292.0
17.5°	9070.8	8719.6	7176.5	4940.3	2869.5	1688.6	1264.7	1151.9	1151.9	1160.9	1164.5
20°	9287.3	8783.3	6750.7	3979.5	1945.2	1230.0	1106.3	1089.9	1099.0	1113.6	1115.4
22.5°	9502.0	8786.9	6195.8	3006.0	1361.1	1077.2	1053.6	1046.3	1051.7	1068.1	1070.0
25°	9676.7	8743.2	5500.7	2138.1	1086.3	1015.4	1004.4	1000.8	1004.4	1024.4	1024.4
27.5°	9747.6	8585.0	4652.7	1503.0	973.5	946.2	942.5	946.2	951.7	966.2	968.1
30°	9755.0	8308.4	3728.4	1088.1	882.5	853.4	860.7	873.4	867.9	864.3	867.9
32.5°	9773.1	7988.1	2827.7	895.2	806.1	760.6	751.5	751.5	729.7	716.9	709.7
35°	9833.2	7611.4	2050.7	804.3	727.8	675.1	640.5	600.5	558.6	536.8	531.4
37.5°	9927.8	7216.6	1468.4	744.2	658.7	598.6	533.1	462.1	402.1	385.8	385.8
40°	10100.7	6809.0	1086.3	696.9	604.1	529.5	431.2	338.4	283.8	274.8	274.8
42.5°	10373.6	6379.5	866.2	655.1	556.8	458.5	329.4	245.6	205.6	200.2	198.3
45°	10657.5	5906.5	757.0	615.0	505.8	376.6	243.8	181.9	158.3	152.9	152.9
47.5°	10941.3	5402.4	704.2	576.8	456.7	293.0	181.9	143.7	132.8	132.8	134.6
50°	11181.6	4876.6	666.0	535.0	393.0	222.0	143.7	121.9	118.3	125.6	127.3
52.5°	11241.5	4359.8	618.6	482.2	314.8	169.3	118.3	107.3	107.3	107.3	107.3
55°	11205.2	3959.4	556.8	416.7	232.9	134.6	101.9	94.6	92.8	92.8	92.8
57.5°	11328.9	3722.9	445.8	323.9	167.4	109.2	89.1	83.7	80.0	78.2	78.2
60°	11578.2	3568.3	318.4	232.9	125.6	91.0	76.4	71.0	65.5	61.9	61.9
62.5°	11909.4	3433.6	236.5	172.9	96.4	72.8	63.7	58.2	51.0	47.3	47.3
65°	12164.1	3193.4	180.2	129.2	72.8	58.2	49.1	47.3	36.4	32.8	30.9
67.5°	11774.7	2665.7	145.6	94.6	54.6	45.5	38.2	36.4	21.8	18.2	18.2
70°	10098.8	1856.0	116.4	69.1	40.1	36.4	30.9	23.7	16.4	14.5	14.5
71°	9158.1	1550.3	105.5	58.2	34.6	34.6	29.2	20.0	14.5	12.8	12.8
72.5°	7607.8	1100.9	89.1	45.5	30.9	36.4	30.9	18.2	14.5	12.8	10.9
75°	4416.2	460.4	61.9	30.9	23.7	43.7	40.1	16.4	10.9	9.1	9.1
77.5°	1328.3	169.3	34.6	20.0	18.2	38.2	45.5	14.5	5.5	1.9	1.9
80°	242.0	72.8	21.8	12.8	12.8	23.7	34.6	7.3	0.0	0.0	0.0
82.5°	85.5	36.4	12.8	7.3	5.5	10.9	16.4	0.0	0.0	0.0	0.0
85°	49.1	25.4	7.3	3.6	0.0	1.9	3.6	0.0	0.0	0.0	0.0
87.5°	32.8	7.3	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)