

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: P383614

Luminaire Tested: **GLEON-SA9A-735-U-SL3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383614  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA9A-735-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33155.7 lumens  
Efficiency: N/A  
Efficacy: 114.3 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

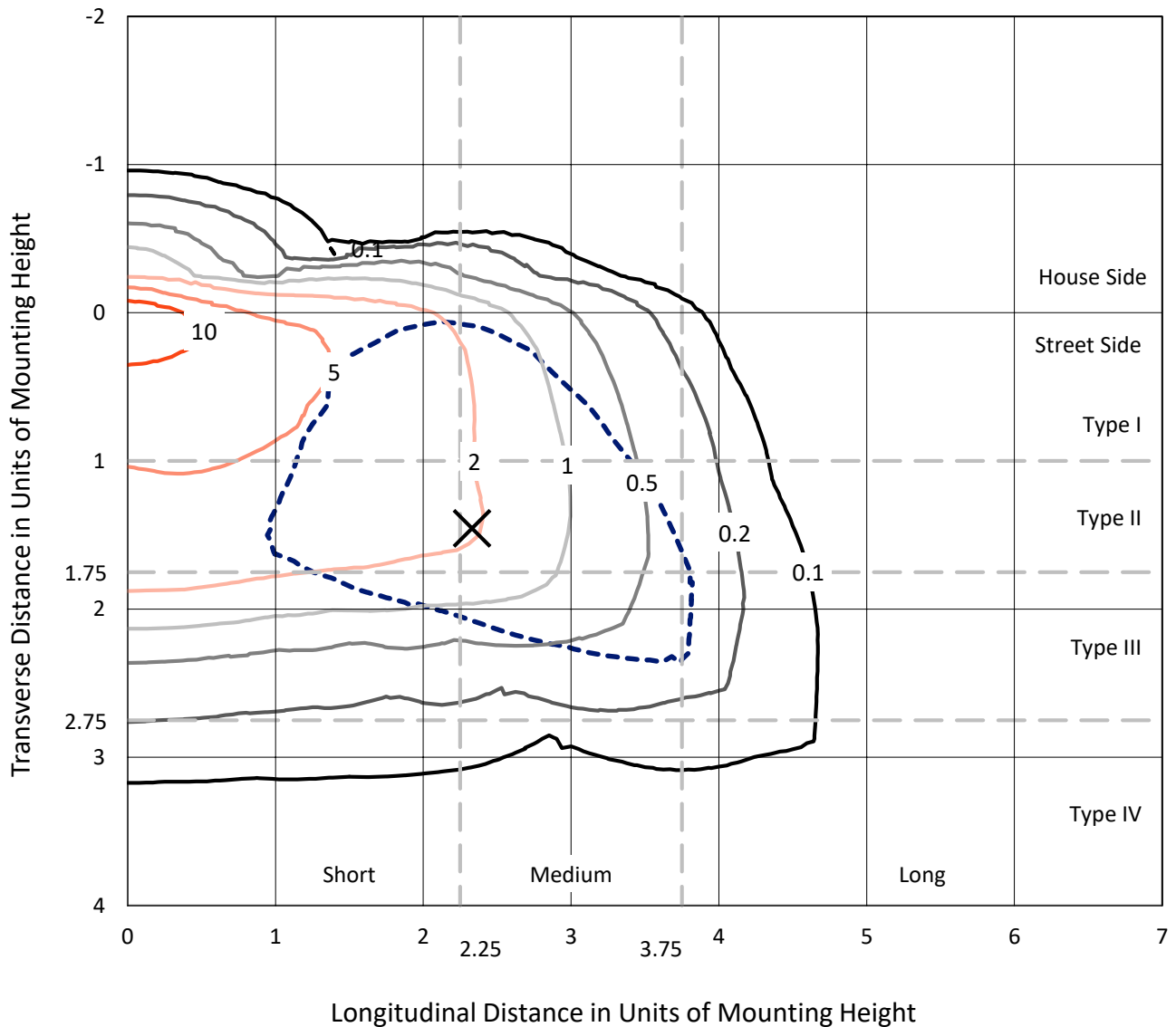
Input Watts (W): 290  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

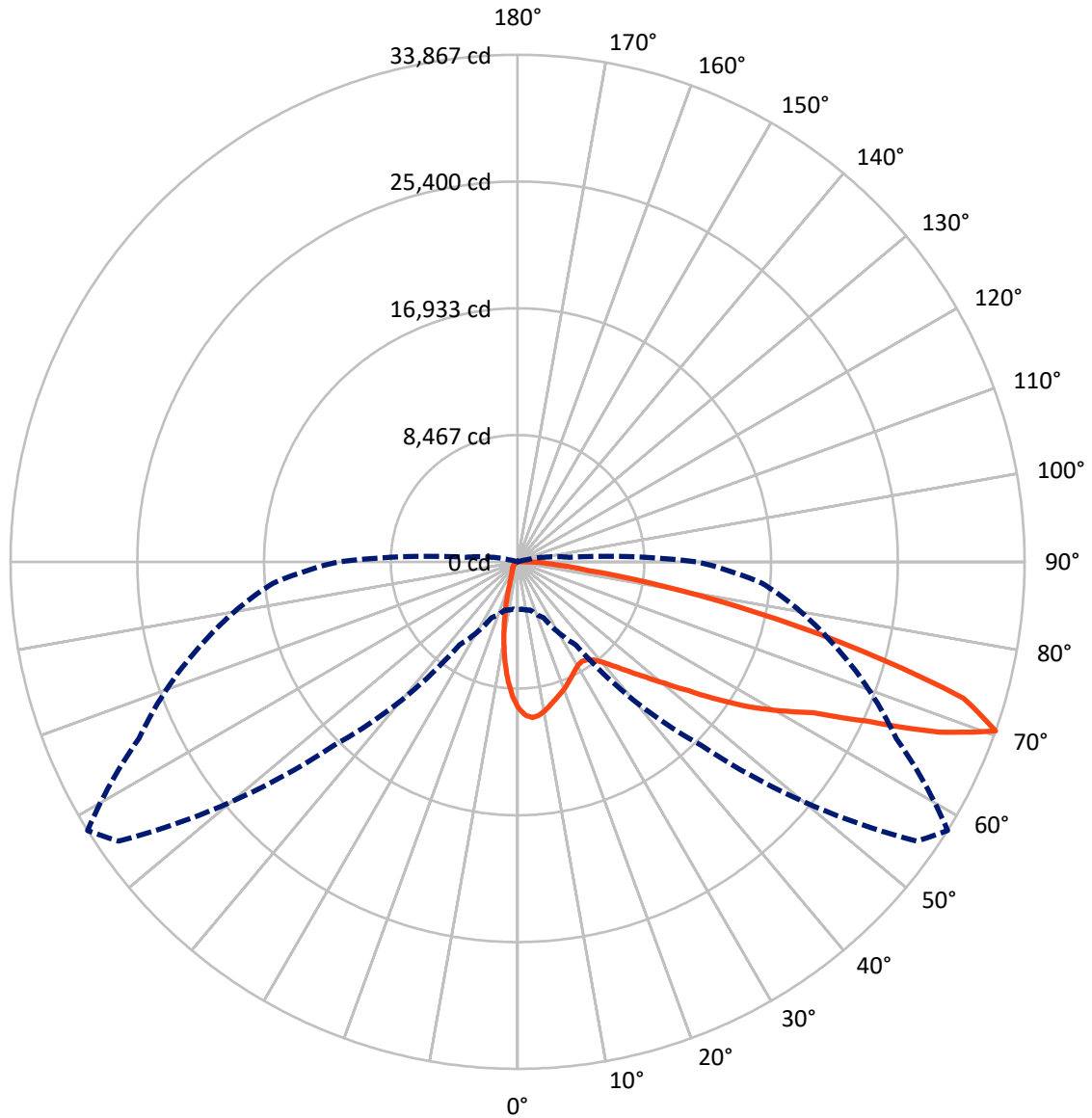
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2837.4	0.0	2837.4
	% Fixture	8.6	0.0	8.6
<b>Street Side</b>	Lumens	30318.3	0.0	30318.3
	% Fixture	91.4	0.0	91.4
<b>Total</b>	Lumens	33155.7	0.0	33155.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	800.9	2.4
10°-20°	1680.9	5.1
20°-30°	2209.8	6.7
30°-40°	2926.6	8.8
40°-50°	4374.4	13.2
50°-60°	7007.7	21.1
60°-70°	8833.1	26.6
70°-80°	4764.5	14.4
80°-90°	557.7	1.7
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°	33155.7	100.0
0°-180°	33155.7	100.0



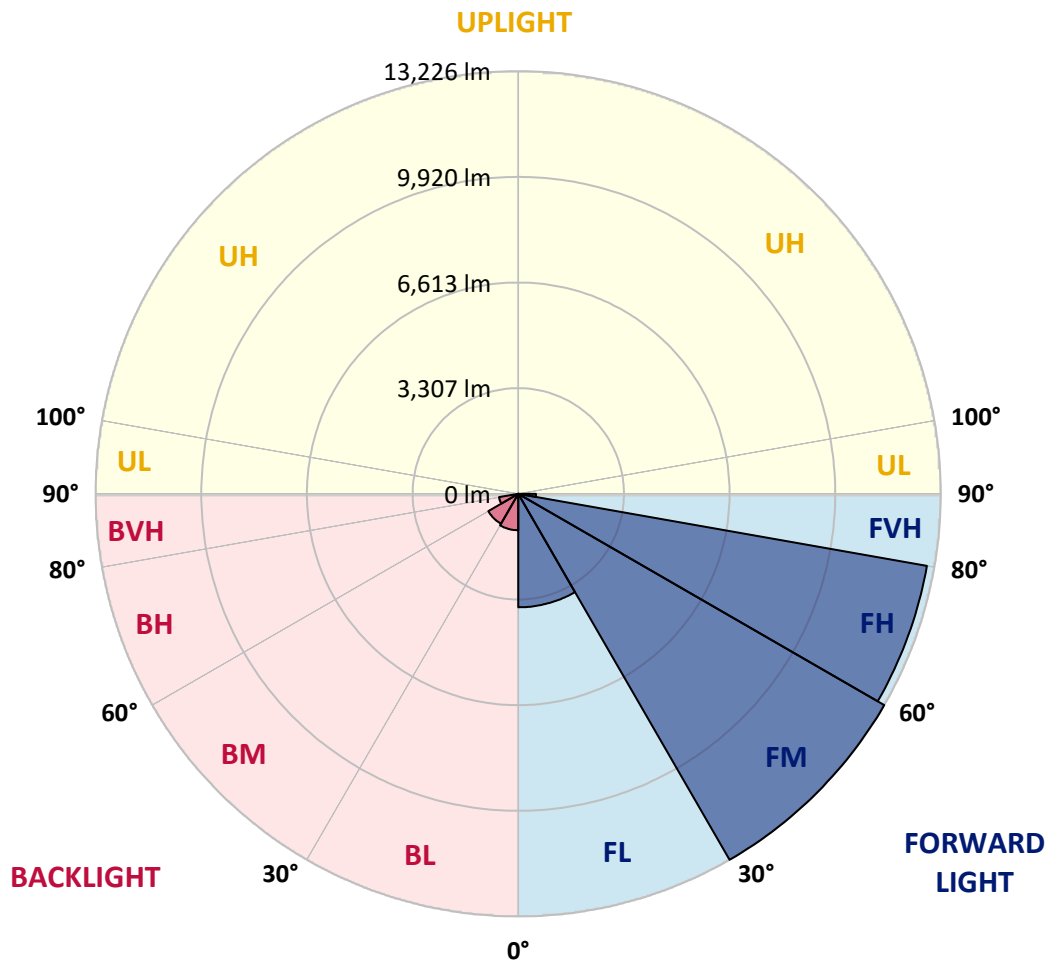
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3551.7	10.7			
FM (30°-60°)	13226.3	39.9			
FH (60°-80°)	12987.4	39.2			G5
FVH (80°-90°)	552.9	1.7			G4/750
BL (0°-30°)	1140.0	3.4	B3/2500		
BM (30°-60°)	1082.4	3.3	B2/2500		
BH (60°-80°)	610.2	1.8	B2/1000		G2/1000
BVH (80°-90°)	4.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	9794.0	9794.0	9794.0	9794.0	9794.0	9794.0	9794.0	9794.0	9794.0	9794.0	9794.0
2.5°	10606.0	10579.9	10570.2	10553.7	10490.3	10428.2	10305.5	10271.1	10193.8	10010.5	9816.1
5°	10614.3	10612.9	10641.9	10635.0	10612.9	10584.0	10495.7	10450.3	10319.3	10057.4	9701.7
7.5°	10102.8	10129.0	10193.8	10246.2	10306.9	10385.5	10396.5	10352.4	10244.9	9962.2	9490.7
10°	9416.3	9457.6	9548.6	9652.0	9810.6	9967.7	10108.3	10102.8	10065.7	9787.1	9237.0
12.5°	8728.3	8776.6	8881.4	9034.3	9259.1	9515.6	9766.4	9800.9	9862.9	9630.0	9002.7
15°	8125.8	8167.2	8270.6	8458.1	8736.6	9081.3	9449.3	9512.8	9672.7	9507.3	8806.9
17.5°	7614.4	7640.6	7716.4	7924.6	8247.2	8664.9	9143.3	9267.4	9505.9	9410.8	8637.3
20°	7257.3	7261.4	7311.1	7457.2	7779.8	8247.2	8826.2	9004.1	9329.4	9328.1	8462.3
22.5°	7080.8	7067.0	7076.7	7160.8	7397.9	7848.8	8509.1	8720.0	9170.9	9257.7	8284.3
25°	7047.7	7036.7	7009.2	7020.1	7163.5	7499.9	8189.2	8433.3	9031.6	9215.0	8130.0
27.5°	7151.1	7162.1	7115.3	7065.6	7076.7	7273.8	7905.2	8187.8	8918.5	9215.0	8021.1
30°	7359.3	7364.8	7330.3	7265.5	7178.7	7210.4	7708.1	7990.7	8862.0	9278.4	7952.2
32.5°	7589.5	7619.9	7615.8	7563.3	7439.2	7311.1	7661.2	7919.0	8857.9	9419.1	7945.3
35°	7874.9	7909.4	7967.2	7956.3	7826.7	7615.8	7821.2	8023.8	8939.2	9650.6	8019.7
37.5°	8178.2	8230.6	8354.7	8414.0	8329.9	8091.3	8179.6	8324.4	9157.1	10025.6	8208.5
40°	8471.9	8531.2	8757.3	8990.3	8926.8	8681.5	8722.8	8838.6	9544.5	10564.7	8567.0
42.5°	8760.0	8848.2	9180.5	9563.8	9639.7	9443.8	9465.9	9558.2	10119.4	11306.4	9152.9
45°	9104.7	9204.0	9696.1	10169.1	10371.7	10286.2	10380.0	10440.6	10870.8	12286.6	9942.9
47.5°	9610.7	9725.1	10328.9	10868.0	11223.7	11278.8	11467.7	11507.7	11820.7	13428.2	10972.8
50°	10597.8	10629.5	11175.4	11664.8	12177.7	12508.6	12723.6	12754.0	12970.5	14675.9	12259.1
52.5°	11840.0	11860.7	12169.5	12497.5	13080.8	13756.3	14259.5	14302.2	14347.7	15891.8	13528.8
55°	13073.9	13071.1	13275.1	13468.1	14135.4	15117.1	16208.9	16235.1	15908.4	17045.8	14499.4
57.5°	13844.6	13919.0	14229.2	14477.4	15409.3	16668.0	18183.2	18279.7	17547.7	17900.5	15458.9
60°	13599.1	13635.0	14322.9	15241.1	16996.2	18872.5	20180.9	20205.6	18780.2	18753.9	16672.2
62.5°	11586.3	11605.6	12686.5	14579.4	17799.9	21731.9	22590.8	22186.9	20197.4	19938.2	18123.9
65°	7941.1	8066.6	8969.6	11309.2	16323.3	23525.5	26321.4	25652.8	22357.8	21645.0	19436.4
67.5°	4676.5	4650.2	5096.9	6820.2	11988.8	22334.3	31040.6	30376.1	25304.0	22787.9	19051.7
70°	3194.4	3176.5	3347.4	4129.1	6767.9	17325.7	32525.5	33866.9	27905.5	22018.6	16396.4
72.5°	2280.3	2289.9	2542.3	3208.2	4249.1	10094.5	27970.3	31145.4	27090.7	19195.1	12463.1
75°	1548.2	1574.4	1935.7	2631.9	3725.2	5135.5	19848.6	23675.7	22060.0	13950.7	7163.5
77.5°	832.7	861.7	1287.7	2120.4	3368.1	3568.0	12767.8	16294.4	13857.0	6271.6	2076.2
80°	347.5	364.0	602.4	1541.3	2910.3	3133.7	7512.4	9880.8	5904.8	1236.6	463.3
82.5°	150.3	158.5	251.0	919.5	2175.5	2645.7	3977.4	4753.6	1789.5	271.6	233.0
85°	29.0	30.4	103.4	486.6	1388.3	1493.1	2578.1	2527.1	803.7	117.2	169.5
87.5°	0.0	0.0	24.8	153.1	408.1	813.4	1573.0	1553.7	272.9	56.5	63.4
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°	9794.0	9794.0	9794.0	9794.0	9794.0	9794.0	9794.0	9794.0	9794.0	9794.0	9794.0
2.5°	9716.8	9621.7	9421.8	9175.0	8986.1	8778.0	8612.5	8402.9	8311.9	8316.1	8266.5
5°	9499.0	9303.2	8860.7	8302.3	7872.1	7428.3	7046.3	6665.9	6441.1	6368.1	6299.1
7.5°	9187.4	8877.2	8171.3	7311.1	6583.2	5871.7	5252.7	4708.1	4363.5	4195.2	4133.3
10°	8835.8	8400.2	7378.6	6245.4	5205.9	4243.5	3441.1	2743.5	2465.1	2276.1	2227.9
12.5°	8527.0	7937.0	6603.8	5152.0	3918.2	2757.3	1992.2	1557.9	1369.0	1294.6	1282.2
15°	8236.1	7504.1	5857.9	4162.2	2713.2	1697.1	1267.0	1119.4	1075.4	1063.0	1063.0
17.5°	7961.8	7091.9	5128.6	3187.5	1795.0	1189.8	1049.2	1016.0	1002.3	1000.9	1002.3
20°	7675.0	6679.7	4411.7	2335.5	1253.2	1007.8	969.2	951.3	947.1	947.1	947.1
22.5°	7400.7	6267.4	3714.1	1668.2	1005.0	919.5	900.2	887.9	883.8	882.4	879.6
25°	7137.3	5875.8	3033.0	1178.8	882.4	842.4	825.8	809.2	796.8	790.0	785.9
27.5°	6920.9	5527.1	2398.8	945.8	796.8	762.4	741.7	716.9	686.6	672.8	667.3
30°	6748.6	5208.6	1848.7	798.2	716.9	682.5	650.7	608.0	563.9	540.4	539.1
32.5°	6613.4	4895.7	1403.5	705.8	645.2	602.4	557.0	503.2	452.2	426.0	424.6
35°	6547.3	4619.9	1072.6	638.3	581.8	528.0	471.5	412.2	362.6	337.8	335.0
37.5°	6591.4	4386.9	836.8	581.8	528.0	466.0	399.8	337.8	293.6	271.6	270.2
40°	6752.7	4238.0	679.7	533.5	482.5	406.7	335.0	277.1	239.9	222.0	220.6
42.5°	7096.0	4182.8	580.4	493.5	438.4	351.6	278.5	228.9	194.4	182.0	179.2
45°	7669.5	4264.2	512.8	455.0	392.9	299.2	230.3	187.5	157.2	147.6	146.2
47.5°	8433.3	4477.9	464.6	417.7	351.6	252.3	191.6	151.7	128.2	118.6	117.2
50°	9417.7	4817.0	424.6	380.5	313.0	213.7	158.5	120.0	99.3	92.4	92.4
52.5°	10488.9	5221.0	388.8	346.1	274.3	177.8	128.2	92.4	78.6	70.3	70.3
55°	11374.0	5573.9	350.2	319.9	227.5	147.6	97.9	70.3	57.9	53.8	53.8
57.5°	12257.7	5950.4	306.1	274.3	182.0	120.0	74.4	52.4	42.8	40.0	40.0
60°	13403.4	6410.8	263.3	223.4	143.4	91.0	55.1	37.3	31.7	30.4	30.4
62.5°	14663.5	6681.0	224.7	179.2	111.7	67.5	40.0	24.8	23.5	23.5	22.1
65°	15434.2	6299.1	188.9	143.4	86.8	51.0	26.2	17.9	20.7	19.3	16.6
67.5°	14451.1	4931.5	154.5	111.7	67.5	38.6	16.6	12.4	22.1	17.9	13.8
70°	11965.4	3452.1	120.0	78.6	53.8	33.1	11.0	8.3	23.5	17.9	11.0
72.5°	8954.4	2310.6	95.1	52.4	40.0	29.0	9.7	4.1	20.7	15.2	9.7
75°	4892.9	930.6	75.8	33.1	24.8	20.7	6.9	2.8	13.8	11.0	6.9
77.5°	1287.7	245.4	55.1	22.1	13.8	8.3	4.1	1.4	6.9	5.5	2.8
80°	328.1	95.1	35.9	15.2	9.7	4.1	0.0	0.0	1.4	0.0	0.0
82.5°	175.1	40.0	22.1	11.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	132.4	26.2	12.4	6.9	1.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	51.0	8.3	4.1	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)