

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: P383336

Luminaire Tested: **GLEON-SA6C-735-U-SL4-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383336  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA6C-735-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31983.8 lumens  
Efficiency: N/A  
Efficacy: 96.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

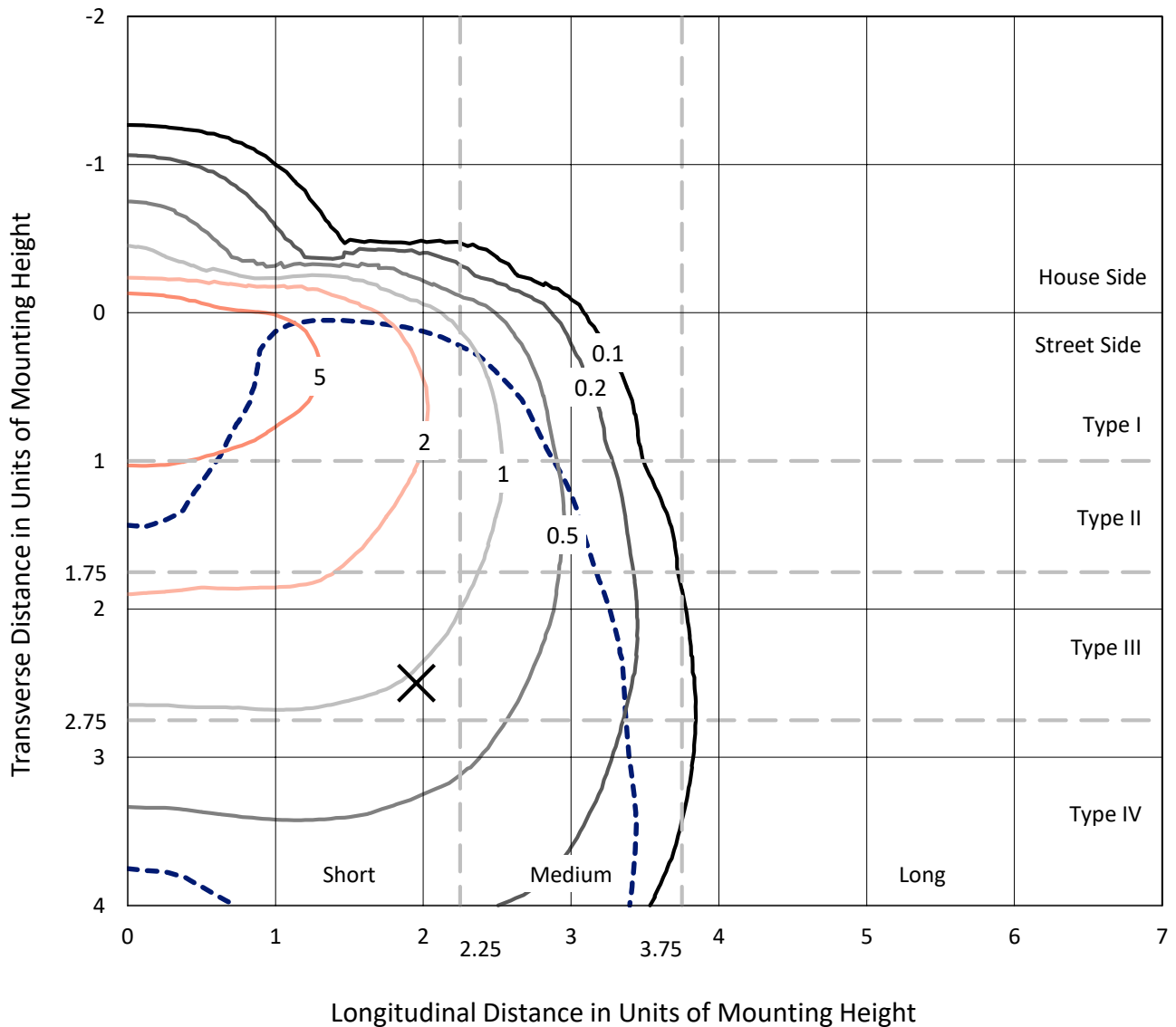
Input Watts (W): 333  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

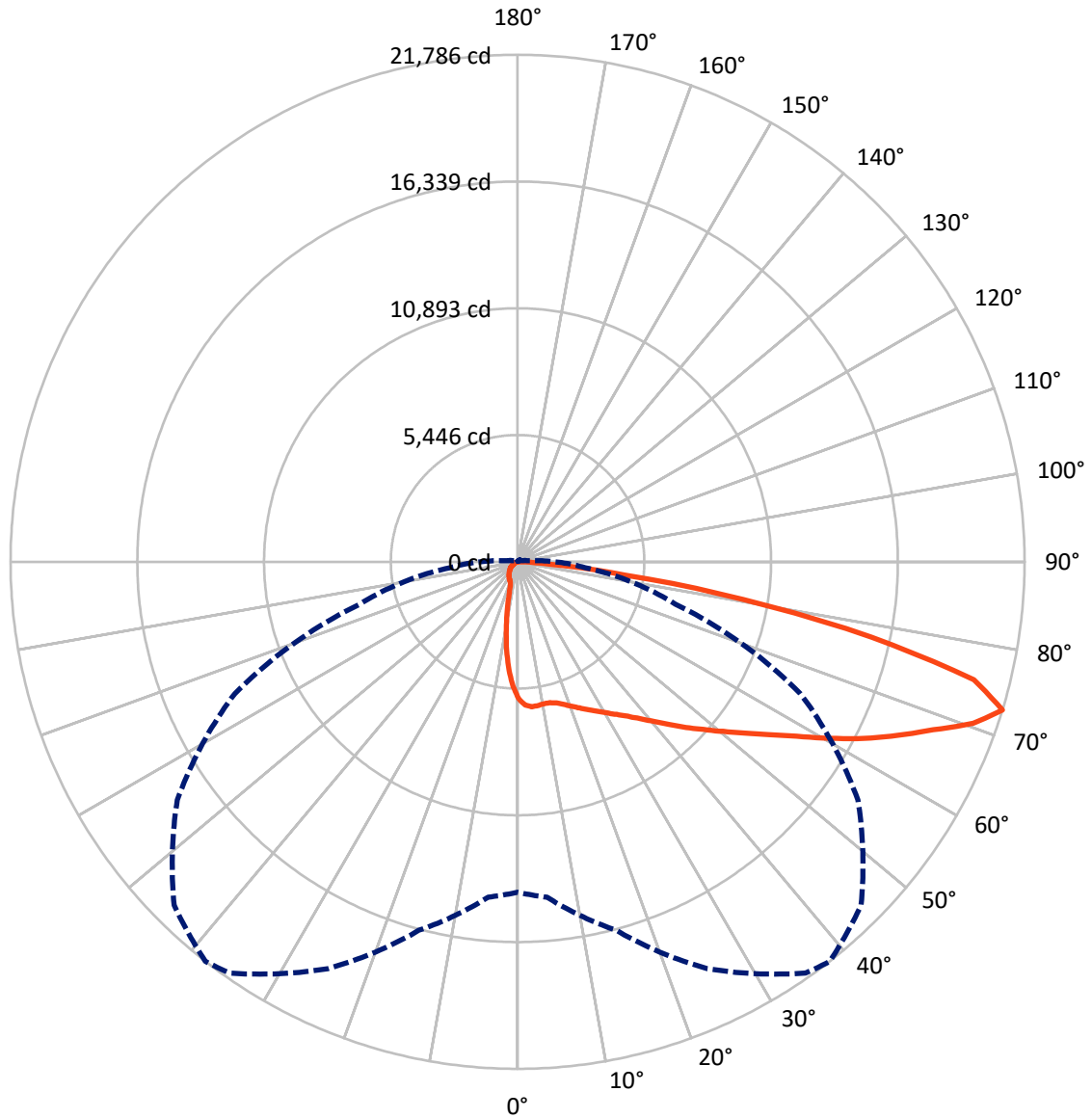
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2691.6	0.0	2691.6
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	29292.2	0.0	29292.2
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	31983.8	0.0	31983.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	501.2	1.6
10°-20°	1225.6	3.8
20°-30°	1949.3	6.1
30°-40°	2930.6	9.2
40°-50°	4470.9	14.0
50°-60°	6318.9	19.8
60°-70°	7926.0	24.8
70°-80°	5926.4	18.5
80°-90°	734.9	2.3
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°	31983.8	100.0
0°-180°	31983.8	100.0

**Coefficient of Utilization**



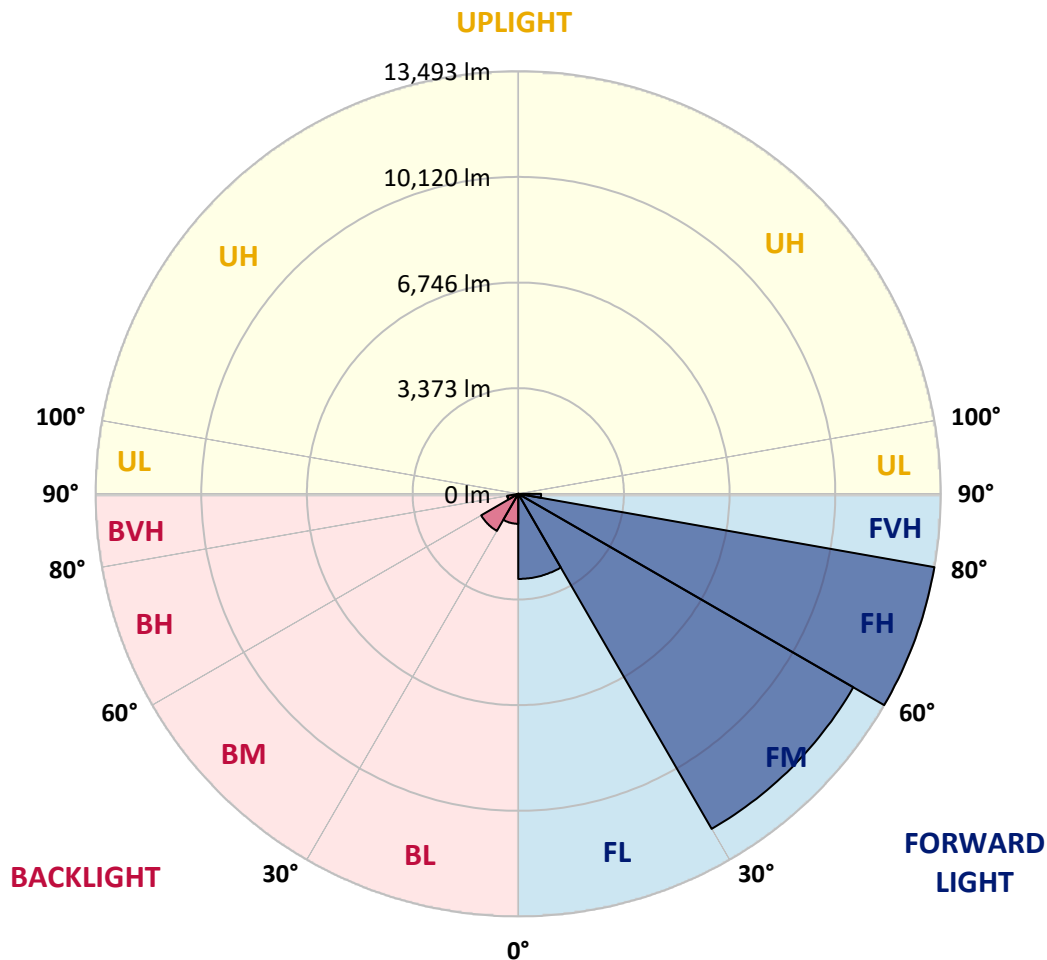
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2717.8	8.5			
FM (30°-60°)	12353.5	38.6			
FH (60°-80°)	13492.8	42.2			G5
FVH (80°-90°)	728.0	2.3			G4/750
BL (0°-30°)	958.4	3.0	B2/1000		
BM (30°-60°)	1366.8	4.3	B2/2500		
BH (60°-80°)	359.5	1.1	B1/500		G1/500
BVH (80°-90°)	6.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	5881.7	5881.7	5881.7	5881.7	5881.7	5881.7	5881.7	5881.7	5881.7	5881.7	5881.7
2.5°	6243.0	6244.3	6229.7	6205.8	6175.2	6159.3	6132.8	6090.3	6045.1	5964.0	5876.4
5°	6370.5	6370.5	6351.9	6320.1	6270.9	6256.3	6205.8	6138.1	6045.1	5913.6	5766.2
7.5°	6357.3	6359.9	6334.6	6301.5	6252.3	6239.0	6177.9	6102.2	5986.7	5827.2	5638.7
10°	6288.1	6294.8	6274.9	6259.0	6213.8	6199.2	6142.1	6066.3	5950.8	5780.7	5564.2
12.5°	6217.8	6224.4	6231.0	6245.7	6217.8	6212.5	6167.3	6103.5	5993.3	5816.6	5572.2
15°	6172.6	6185.8	6233.7	6290.8	6297.4	6292.1	6262.9	6203.2	6091.6	5908.2	5629.3
17.5°	6172.6	6193.9	6293.4	6402.4	6440.9	6444.9	6419.7	6336.0	6203.2	6006.5	5682.4
20°	6224.4	6253.7	6409.0	6563.1	6626.8	6626.8	6577.8	6460.8	6305.5	6095.6	5718.3
22.5°	6357.3	6395.7	6591.0	6769.0	6836.7	6822.2	6755.8	6585.7	6411.7	6196.5	5763.5
25°	6618.9	6648.2	6851.3	7030.7	7071.8	7038.7	6954.9	6737.1	6547.2	6333.3	5845.8
27.5°	6956.3	6960.2	7170.1	7321.6	7296.3	7273.8	7168.8	6927.1	6742.4	6528.6	5988.0
30°	7326.9	7326.9	7511.5	7627.0	7550.0	7531.5	7426.5	7156.9	6992.2	6794.2	6189.9
32.5°	7685.5	7701.5	7851.5	7924.7	7838.3	7819.7	7717.4	7447.8	7324.2	7199.4	6504.7
35°	8032.3	8044.2	8186.3	8226.1	8143.8	8149.1	8076.1	7847.5	7801.1	7785.1	6978.9
37.5°	8368.3	8371.0	8515.7	8541.0	8499.8	8544.9	8551.6	8349.6	8436.0	8564.8	7647.0
40°	8675.1	8677.7	8821.2	8886.3	8956.7	9015.1	9066.9	8959.3	9245.0	9543.8	8442.7
42.5°	8920.9	8948.7	9130.8	9254.3	9440.2	9551.8	9692.6	9687.3	10208.0	10656.9	9404.3
45°	9137.4	9185.2	9438.9	9655.4	9974.2	10152.2	10372.7	10545.4	11291.8	11896.2	10378.0
47.5°	9423.0	9468.2	9757.7	10112.3	10537.4	10771.2	11136.5	11509.7	12483.4	13112.9	11329.0
50°	9825.4	9805.5	10091.1	10599.8	11145.8	11452.6	11973.3	12532.5	13665.5	14172.9	11888.3
52.5°	10254.5	10246.5	10457.7	11129.9	11863.1	12221.7	12909.8	13589.8	14796.0	14903.6	12144.7
55°	10785.8	10728.6	10906.7	11734.1	12714.5	13099.7	13910.0	14636.6	15696.5	15315.3	12273.5
57.5°	11342.3	11248.1	11418.1	12407.7	13674.8	14130.5	15017.8	15656.6	16295.6	15596.9	12272.1
60°	11917.5	11805.9	12007.8	13249.8	14867.7	15394.9	16218.5	16346.1	16854.8	15739.1	12181.8
62.5°	12398.3	12331.9	12632.2	14150.4	16199.9	16717.9	17125.8	16973.0	17326.3	15849.3	11970.7
65°	12907.1	12911.1	13395.9	15201.1	17615.9	17965.3	17999.7	17785.9	17720.8	15826.7	11256.0
67.5°	13595.1	13658.9	14467.9	16627.7	18993.3	19263.0	19260.3	18666.5	18009.1	14928.8	9671.3
70°	14323.0	14473.2	15703.2	18260.1	20496.9	20770.6	20629.8	19227.1	16957.1	12071.6	6844.7
72.5°	14200.9	14461.2	16389.8	19289.6	21576.9	21785.5	20870.2	17849.7	13402.5	7016.0	2914.3
75°	10955.8	11257.3	15028.4	18269.4	20443.8	20256.6	17932.0	13890.0	7324.2	1957.9	656.2
77.5°	5787.4	5948.1	9927.7	13917.9	15940.9	15549.0	12632.2	7705.5	2232.8	484.9	294.9
80°	3031.2	3068.3	4326.3	7896.7	9838.7	9841.3	7486.3	3384.5	920.6	248.4	198.0
82.5°	1623.2	1655.1	2286.0	3648.9	5155.1	4672.9	2866.5	1862.3	535.3	140.8	189.9
85°	390.5	397.1	1296.4	1667.0	2027.0	1447.8	851.4	1563.4	144.8	82.3	154.1
87.5°	150.1	152.8	480.9	721.3	516.7	334.7	398.5	583.1	18.6	31.9	23.9
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°	5881.7	5881.7	5881.7	5881.7	5881.7	5881.7	5881.7	5881.7	5881.7	5881.7	5881.7
2.5°	5823.3	5788.7	5703.7	5596.1	5500.5	5431.4	5327.8	5260.1	5214.9	5213.6	5196.3
5°	5675.8	5605.4	5422.1	5204.3	5006.3	4828.4	4618.5	4452.4	4328.9	4309.0	4266.5
7.5°	5517.7	5402.2	5120.6	4780.5	4448.5	4111.1	3719.2	3476.2	3267.6	3168.0	3157.4
10°	5420.8	5258.8	4859.0	4367.5	3846.7	3298.1	2785.4	2430.8	2174.4	2101.4	2046.9
12.5°	5400.8	5187.0	4657.0	3979.6	3235.7	2510.5	1943.3	1566.0	1361.5	1296.4	1279.1
15°	5420.8	5153.8	4487.0	3595.7	2616.7	1781.2	1304.4	1085.3	1008.2	989.6	988.3
17.5°	5432.8	5113.9	4294.4	3169.3	2016.3	1272.5	998.9	935.1	923.2	921.9	924.5
20°	5431.4	5052.8	4064.6	2693.8	1499.6	1000.2	903.2	890.0	887.3	888.6	887.3
22.5°	5422.1	4981.1	3812.2	2203.7	1133.0	893.9	862.1	854.1	852.7	852.7	852.7
25°	5439.4	4924.0	3534.6	1734.7	933.8	844.8	824.9	818.3	816.9	816.9	814.3
27.5°	5501.8	4892.1	3230.4	1334.9	843.4	800.9	785.0	783.7	779.7	778.4	781.0
30°	5602.8	4892.1	2897.0	1038.8	789.0	755.8	743.8	741.2	739.8	738.5	739.8
32.5°	5780.7	4929.3	2533.1	863.4	737.2	705.4	697.4	701.4	697.4	697.4	697.4
35°	6102.2	5040.9	2151.9	753.2	682.7	656.2	648.2	653.5	650.9	650.9	649.6
37.5°	6571.1	5248.2	1768.0	686.7	634.9	607.0	596.4	604.4	601.7	601.7	600.4
40°	7142.3	5549.6	1402.7	636.2	588.5	559.2	549.9	553.9	547.3	547.3	549.9
42.5°	7847.5	5932.2	1083.9	587.2	542.0	514.0	508.7	504.7	492.8	486.2	487.5
45°	8631.3	6330.7	844.8	539.3	498.1	475.6	467.5	456.9	437.0	423.8	425.1
47.5°	9331.3	6637.5	686.7	492.8	458.2	441.0	429.1	409.1	379.9	364.0	365.3
50°	9699.3	6684.0	584.5	446.3	421.1	403.8	386.5	355.9	321.5	304.2	302.8
52.5°	9793.5	6466.2	508.7	403.8	383.9	364.0	341.4	300.2	261.7	243.0	240.4
55°	9828.1	6134.1	441.0	364.0	344.0	321.5	292.2	245.7	209.9	191.2	189.9
57.5°	9713.8	5638.7	387.9	328.1	304.2	276.3	240.4	196.6	162.1	147.5	147.5
60°	9460.1	4967.9	346.7	289.5	263.0	231.1	193.9	152.8	120.9	108.9	108.9
62.5°	8954.0	4099.1	308.2	249.7	224.5	191.2	156.8	115.6	85.1	78.3	79.7
65°	7999.0	3109.5	269.7	213.9	191.2	158.1	122.2	82.3	57.1	57.1	59.8
67.5°	6523.3	2159.8	229.8	181.9	164.7	128.8	93.0	57.1	39.9	45.2	50.5
70°	4318.3	1211.4	196.6	150.1	140.8	102.3	69.0	38.6	31.9	42.5	51.8
72.5°	1629.8	471.5	164.7	120.9	122.2	78.3	49.2	29.3	29.3	46.5	61.1
75°	454.3	231.1	118.2	89.0	95.7	57.1	35.9	25.2	27.9	53.1	71.7
77.5°	267.0	170.0	77.0	51.8	65.1	39.9	23.9	19.9	23.9	45.2	69.0
80°	215.2	90.4	45.2	26.5	35.9	22.5	15.9	11.9	6.6	17.2	35.9
82.5°	215.2	54.5	21.2	18.6	18.6	11.9	8.0	5.3	1.3	0.0	9.3
85°	144.8	22.5	13.3	11.9	9.3	4.0	2.7	1.3	0.0	0.0	0.0
87.5°	23.9	9.3	5.3	2.7	1.3	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)