

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: P323963

Luminaire Tested: **GLEON-SA9B-827-U-SL4-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323963  
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-SA9B-827-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 800mA 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: 30481 lumens  
Efficiency: N/A  
Efficacy: 81.5 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

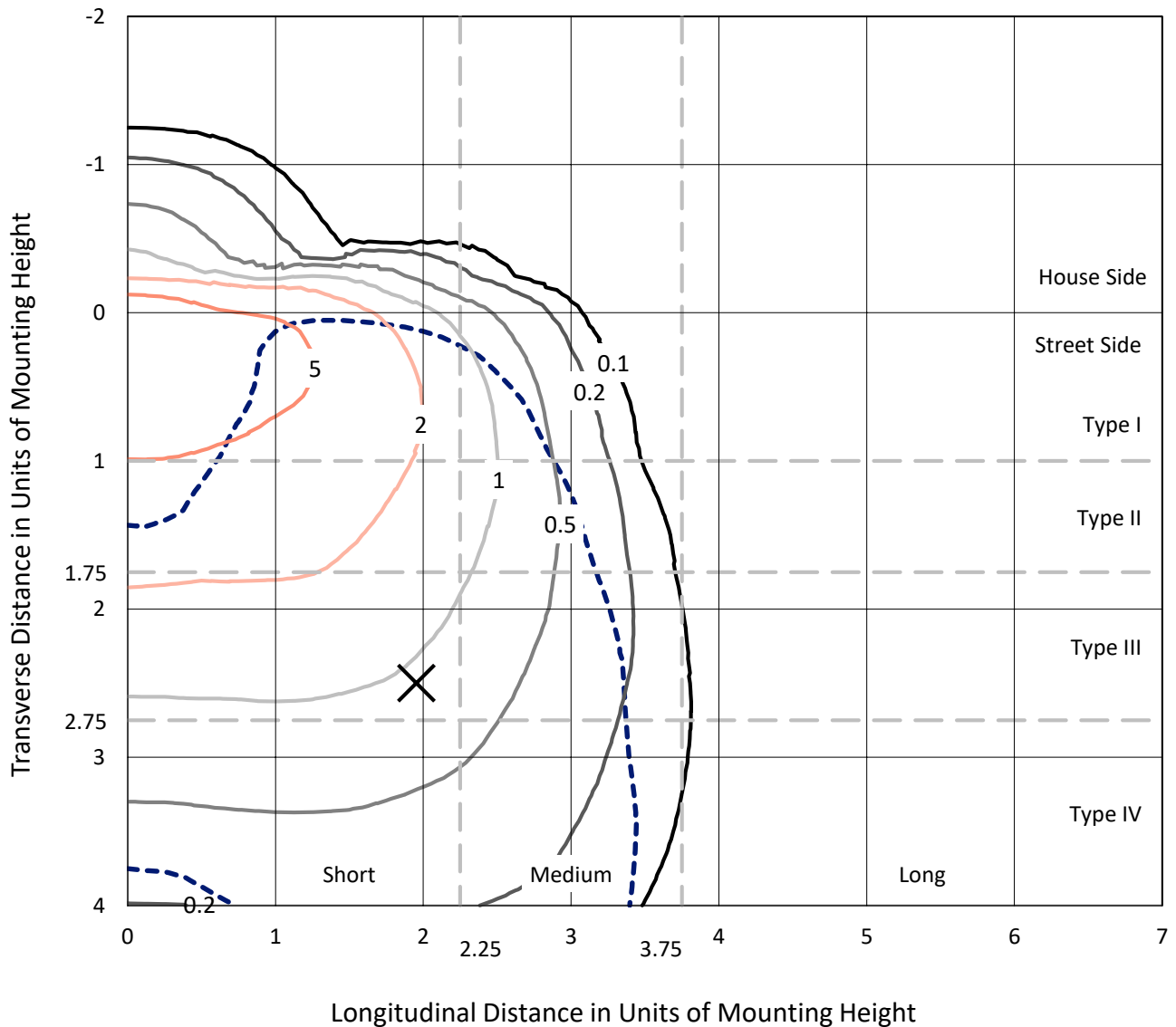
Input Watts (W): 374  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

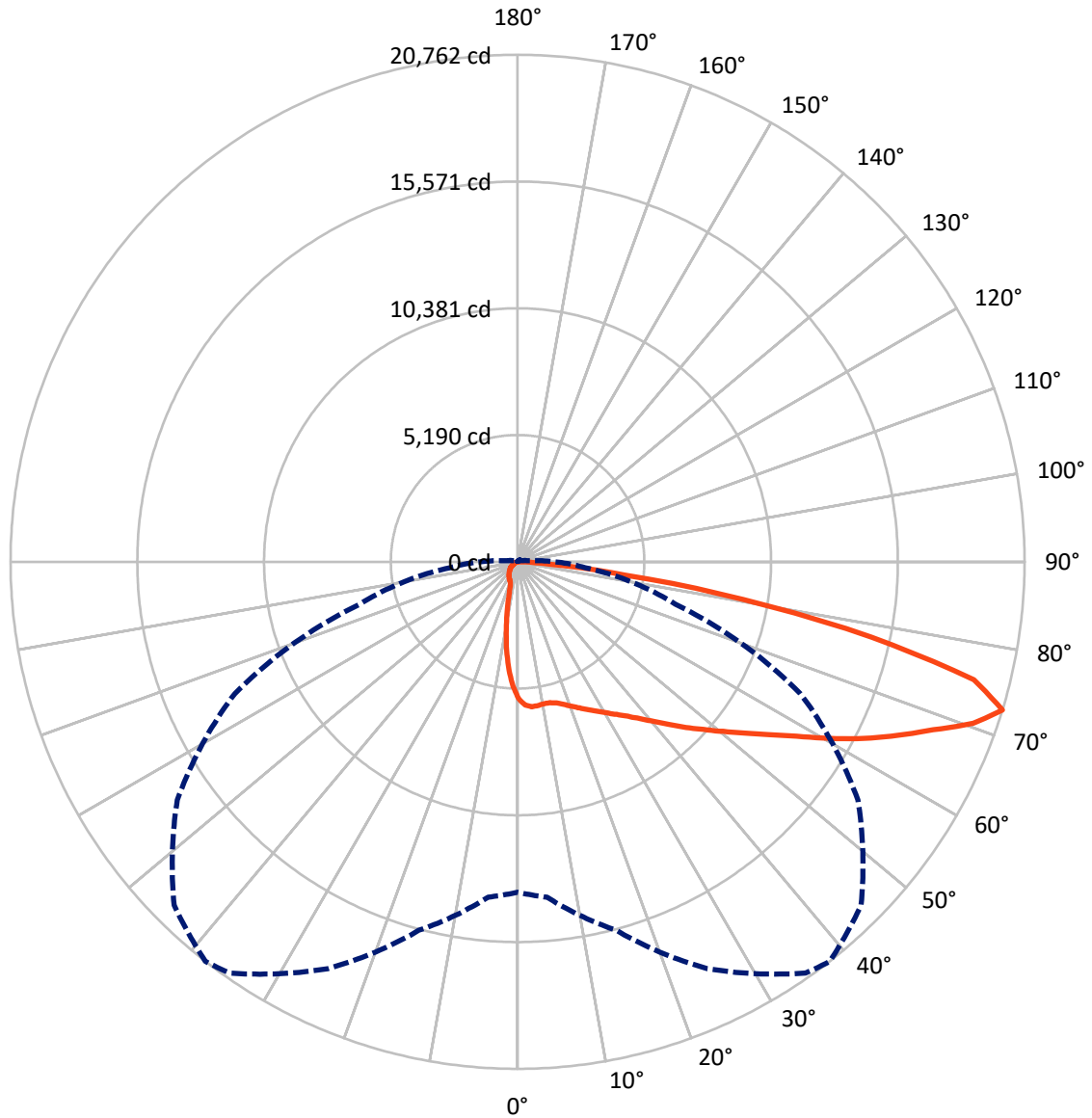
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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	2565.1	0.0	2565.1
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	27915.9	0.0	27915.9
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	30481.0	0.0	30481.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	477.7	1.6
10°-20°	1168.0	3.8
20°-30°	1857.8	6.1
30°-40°	2792.9	9.2
40°-50°	4260.8	14.0
50°-60°	6022.0	19.8
60°-70°	7553.5	24.8
70°-80°	5647.9	18.5
80°-90°	700.3	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°	30481.0	100.0
0°-180°	30481.0	100.0

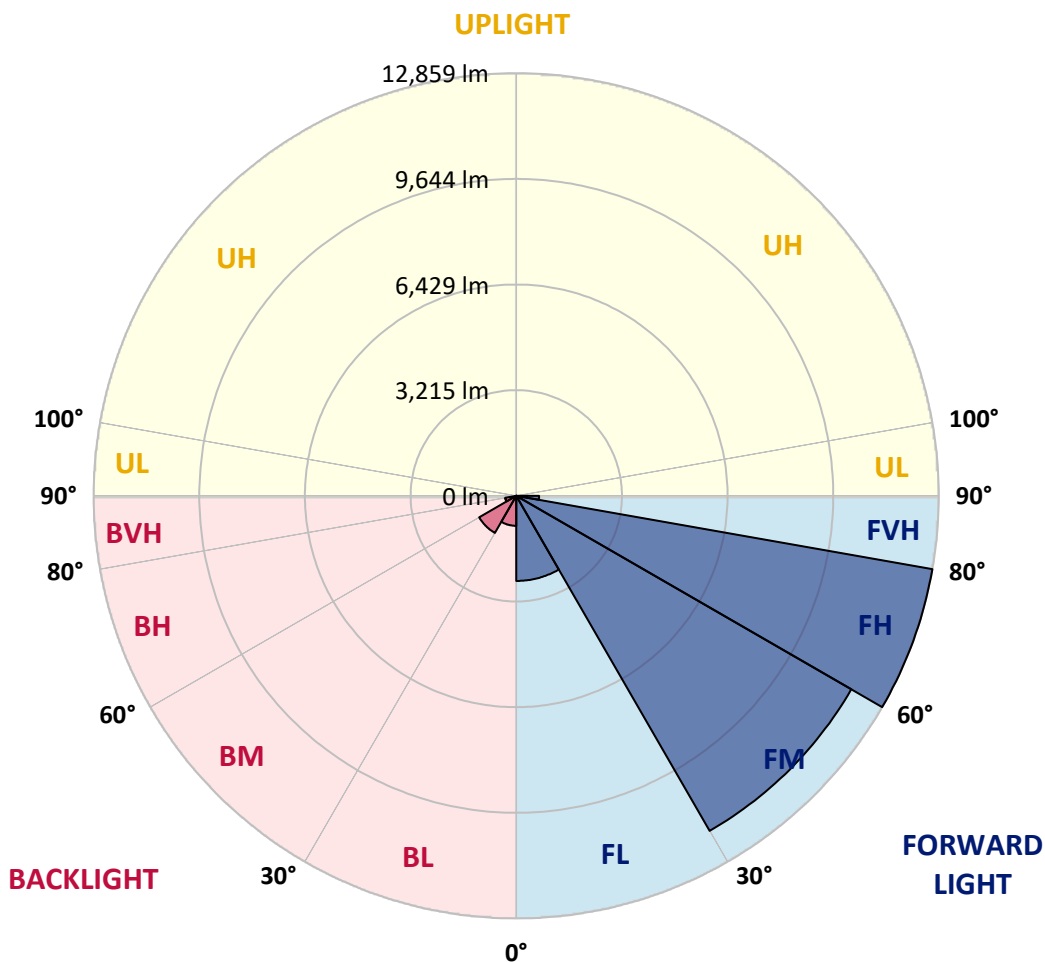


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2590.2	8.5			
FM (30°-60°)	11773.1	38.6			
FH (60°-80°)	12858.8	42.2			G5
FVH (80°-90°)	693.8	2.3			G4/750
BL (0°-30°)	913.3	3.0	B2/1000		
BM (30°-60°)	1302.6	4.3	B2/2500		
BH (60°-80°)	342.6	1.1	B1/500		G1/500
BVH (80°-90°)	6.5	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°	5605.4	5605.4	5605.4	5605.4	5605.4	5605.4	5605.4	5605.4	5605.4	5605.4	5605.4
2.5°	5949.7	5950.9	5937.0	5914.2	5885.1	5869.9	5844.6	5804.1	5761.1	5683.8	5600.3
5°	6071.2	6071.2	6053.5	6023.1	5976.3	5962.3	5914.2	5849.7	5761.1	5635.7	5495.2
7.5°	6058.5	6061.1	6037.0	6005.4	5958.5	5945.9	5887.6	5815.5	5705.4	5553.5	5373.7
10°	5992.7	5999.0	5980.1	5964.9	5921.8	5907.9	5853.5	5781.3	5671.2	5509.1	5302.8
12.5°	5925.6	5932.0	5938.3	5952.2	5925.6	5920.6	5877.5	5816.8	5711.7	5543.3	5310.4
15°	5882.6	5895.2	5940.8	5995.2	6001.6	5996.5	5968.7	5911.7	5805.4	5630.7	5364.8
17.5°	5882.6	5902.8	5997.8	6101.6	6138.3	6142.1	6118.0	6038.3	5911.7	5724.3	5415.5
20°	5932.0	5959.8	6107.9	6254.8	6315.5	6315.5	6268.7	6157.3	6009.2	5809.2	5449.7
22.5°	6058.5	6095.3	6281.3	6451.0	6515.5	6501.6	6438.3	6276.3	6110.4	5905.4	5492.7
25°	6307.9	6335.8	6529.5	6700.3	6739.6	6707.9	6628.2	6420.6	6239.6	6035.8	5571.2
27.5°	6629.5	6633.3	6833.3	6977.6	6953.5	6932.0	6832.0	6601.6	6425.7	6221.8	5706.6
30°	6982.6	6982.6	7158.6	7268.7	7195.3	7177.6	7077.6	6820.6	6663.6	6475.0	5899.0
32.5°	7324.4	7339.6	7482.7	7552.3	7470.0	7452.3	7354.8	7097.8	6980.1	6861.1	6199.1
35°	7654.8	7666.2	7801.7	7839.6	7761.2	7766.2	7696.6	7478.9	7434.6	7419.4	6651.0
37.5°	7975.1	7977.6	8115.6	8139.7	8100.4	8143.5	8149.8	7957.4	8039.7	8162.5	7287.7
40°	8267.5	8270.1	8406.8	8468.8	8535.9	8591.6	8641.0	8538.4	8810.6	9095.4	8046.0
42.5°	8501.7	8528.3	8701.7	8819.4	8996.7	9103.0	9237.2	9232.1	9728.4	10156.2	8962.5
45°	8708.0	8753.6	8995.4	9201.7	9505.6	9675.2	9885.3	10049.9	10761.3	11337.3	9890.4
47.5°	8980.2	9023.3	9299.2	9637.2	10042.3	10265.1	10613.2	10968.9	11896.8	12496.9	10796.8
50°	9363.8	9344.8	9617.0	10101.8	10622.1	10914.5	11410.7	11943.7	13023.5	13507.0	11329.7
52.5°	9772.7	9765.1	9966.3	10606.9	11305.7	11647.4	12303.2	12951.3	14100.7	14203.3	11574.0
55°	10279.0	10224.6	10394.2	11182.9	12117.1	12484.2	13256.4	13948.8	14959.0	14595.7	11696.8
57.5°	10809.4	10719.5	10881.6	11824.7	13032.3	13466.5	14312.1	14921.0	15529.9	14864.1	11695.5
60°	11357.6	11251.2	11443.6	12627.2	14169.1	14671.7	15456.5	15578.0	16062.9	14999.5	11609.5
62.5°	11815.8	11752.5	12038.6	13485.5	15438.8	15932.5	16321.1	16175.5	16512.3	15104.6	11408.2
65°	12300.6	12304.4	12766.5	14486.8	16788.2	17121.1	17154.1	16950.3	16888.2	15083.1	10727.1
67.5°	12956.4	13017.1	13788.1	15846.4	18100.9	18357.9	18355.4	17789.5	17162.9	14227.3	9216.9
70°	13650.1	13793.1	14965.3	17402.2	19533.9	19794.7	19660.5	18323.7	16160.3	11504.4	6523.1
72.5°	13533.6	13781.7	15619.8	18383.2	20563.1	20761.8	19889.6	17011.0	12772.8	6686.4	2777.4
75°	10441.1	10728.4	14322.3	17411.0	19483.3	19304.8	17089.5	13237.4	6980.1	1865.9	625.3
77.5°	5515.5	5668.6	9461.3	13264.0	15191.9	14818.5	12038.6	7343.4	2128.0	462.0	281.0
80°	2888.8	2924.2	4123.0	7525.7	9376.4	9379.0	7134.5	3225.5	877.3	236.7	188.6
82.5°	1546.9	1577.3	2178.6	3477.4	4912.9	4453.4	2731.8	1774.8	510.2	134.2	181.0
85°	372.2	378.5	1235.5	1588.7	1931.7	1379.8	811.4	1490.0	138.0	78.5	146.8
87.5°	143.0	145.6	458.3	687.4	492.4	319.0	379.8	555.7	17.7	30.4	22.8
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°	5605.4	5605.4	5605.4	5605.4	5605.4	5605.4	5605.4	5605.4	5605.4	5605.4	5605.4
2.5°	5549.7	5516.7	5435.7	5333.2	5242.0	5176.2	5077.5	5012.9	4969.9	4968.6	4952.2
5°	5409.1	5342.1	5167.4	4959.8	4771.1	4601.5	4401.5	4243.3	4125.5	4106.5	4066.0
7.5°	5258.5	5148.4	4880.0	4555.9	4239.5	3917.9	3544.5	3312.8	3114.1	3019.1	3009.0
10°	5166.1	5011.7	4630.6	4162.2	3666.0	3143.2	2654.6	2316.6	2072.3	2002.6	1950.7
12.5°	5147.1	4943.3	4438.2	3792.6	3083.7	2392.5	1852.0	1492.5	1297.5	1235.5	1219.1
15°	5166.1	4911.6	4276.2	3426.8	2493.8	1697.6	1243.1	1034.2	960.8	943.1	941.8
17.5°	5177.5	4873.7	4092.6	3020.4	1921.6	1212.7	951.9	891.2	879.8	878.5	881.1
20°	5176.2	4815.4	3873.6	2567.2	1429.2	953.2	860.8	848.1	845.6	846.9	845.6
22.5°	5167.4	4747.1	3633.1	2100.1	1079.8	851.9	821.6	814.0	812.7	812.7	812.7
25°	5183.8	4692.6	3368.5	1653.3	889.9	805.1	786.1	779.8	778.5	778.5	776.0
27.5°	5243.3	4662.3	3078.6	1272.2	803.8	763.3	748.1	746.9	743.1	741.8	744.3
30°	5339.5	4662.3	2760.9	989.9	751.9	720.3	708.9	706.4	705.1	703.8	705.1
32.5°	5509.1	4697.7	2414.0	822.8	702.6	672.2	664.6	668.4	664.6	664.6	664.6
35°	5815.5	4804.0	2050.7	717.8	650.7	625.3	617.8	622.8	620.3	620.3	619.0
37.5°	6262.4	5001.5	1684.9	654.5	605.1	578.5	568.4	576.0	573.4	573.4	572.2
40°	6806.7	5288.9	1336.8	606.4	560.8	532.9	524.1	527.9	521.5	521.5	524.1
42.5°	7478.9	5653.5	1033.0	559.5	516.5	489.9	484.8	481.0	469.6	463.3	464.6
45°	8225.7	6033.2	805.1	514.0	474.7	453.2	445.6	435.5	416.5	403.8	405.1
47.5°	8892.9	6325.6	654.5	469.6	436.7	420.3	408.9	389.9	362.0	346.9	348.1
50°	9243.5	6370.0	557.0	425.3	401.3	384.8	368.4	339.3	306.3	289.9	288.6
52.5°	9333.4	6162.3	484.8	384.8	365.8	346.9	325.3	286.1	249.4	231.7	229.1
55°	9366.3	5845.9	420.3	346.9	327.9	306.3	278.5	234.2	200.0	182.3	181.0
57.5°	9257.4	5373.7	369.6	312.7	289.9	263.3	229.1	187.4	154.4	140.5	140.5
60°	9015.7	4734.4	330.4	276.0	250.6	220.3	184.8	145.6	115.2	103.8	103.8
62.5°	8533.4	3906.5	293.7	238.0	213.9	182.3	149.4	110.1	81.0	74.7	76.0
65°	7623.2	2963.4	257.0	203.8	182.3	150.6	116.5	78.5	54.4	54.4	57.0
67.5°	6216.8	2058.3	219.0	173.4	157.0	122.8	88.6	54.4	38.0	43.0	48.1
70°	4115.4	1154.5	187.4	143.0	134.2	97.5	65.8	36.7	30.4	40.5	49.4
72.5°	1553.2	449.4	157.0	115.2	116.5	74.7	46.8	27.8	27.8	44.3	58.2
75°	432.9	220.3	112.7	84.8	91.1	54.4	34.2	24.1	26.6	50.6	68.4
77.5°	254.4	162.0	73.4	49.4	62.0	38.0	22.8	19.0	22.8	43.0	65.8
80°	205.1	86.1	43.0	25.3	34.2	21.5	15.2	11.4	6.3	16.5	34.2
82.5°	205.1	51.9	20.3	17.7	17.7	11.4	7.6	5.1	1.3	0.0	8.9
85°	138.0	21.5	12.7	11.4	8.9	3.8	2.5	1.3	0.0	0.0	0.0
87.5°	22.8	8.9	5.1	2.5	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)