

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: P383532

Luminaire Tested: **GLEON-SA8B-735-U-SL4-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383532  
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-SA8B-735-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 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: 34627.5 lumens  
Efficiency: N/A  
Efficacy: 103.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

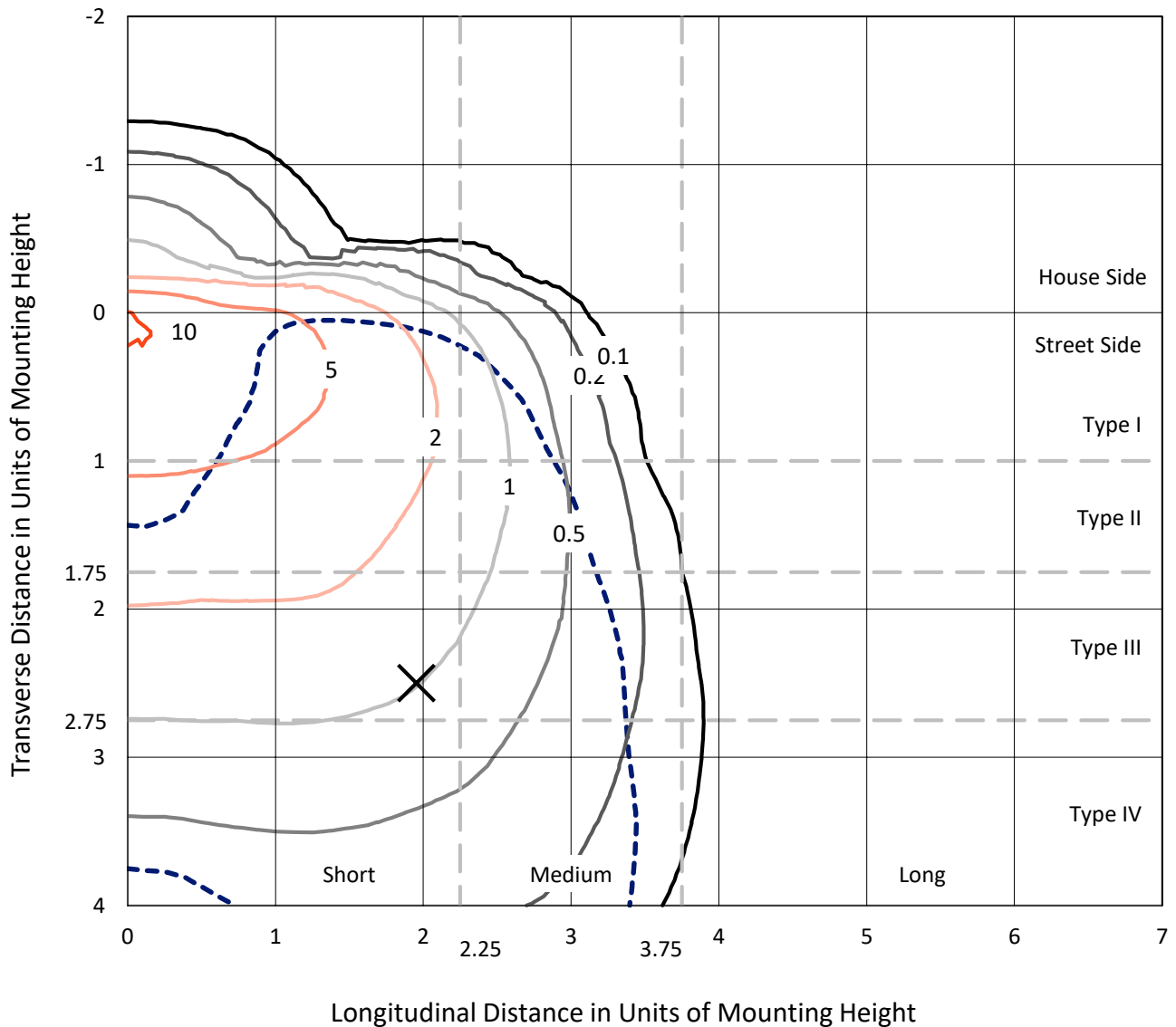
Input Watts (W): 334  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

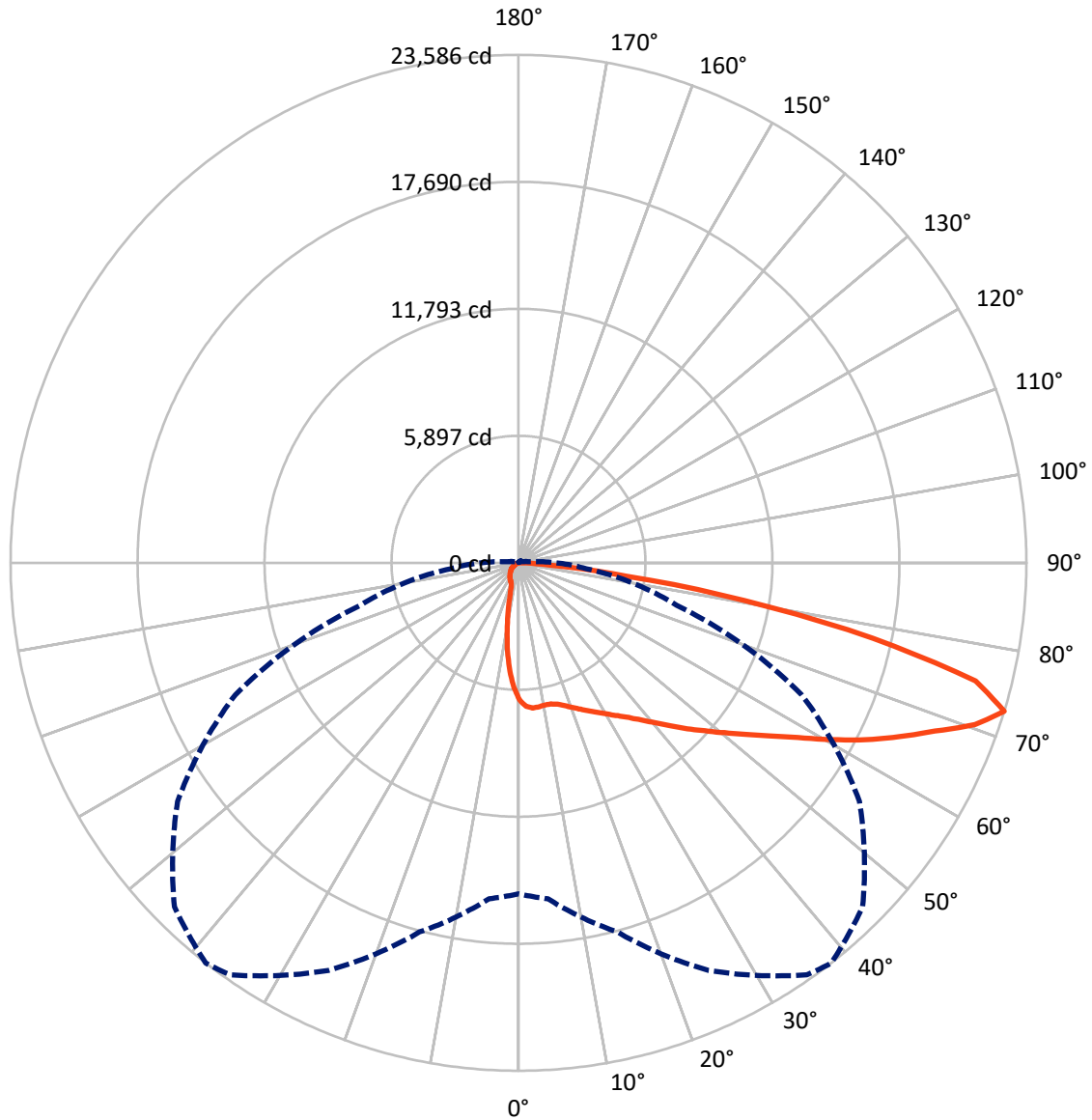
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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	2914.0	0.0	2914.0
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	31713.5	0.0	31713.5
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	34627.5	0.0	34627.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	542.7	1.6
10°-20°	1326.9	3.8
20°-30°	2110.5	6.1
30°-40°	3172.9	9.2
40°-50°	4840.4	14.0
50°-60°	6841.2	19.8
60°-70°	8581.1	24.8
70°-80°	6416.3	18.5
80°-90°	795.6	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°	34627.5	100.0
0°-180°	34627.5	100.0

**Coefficient of Utilization**



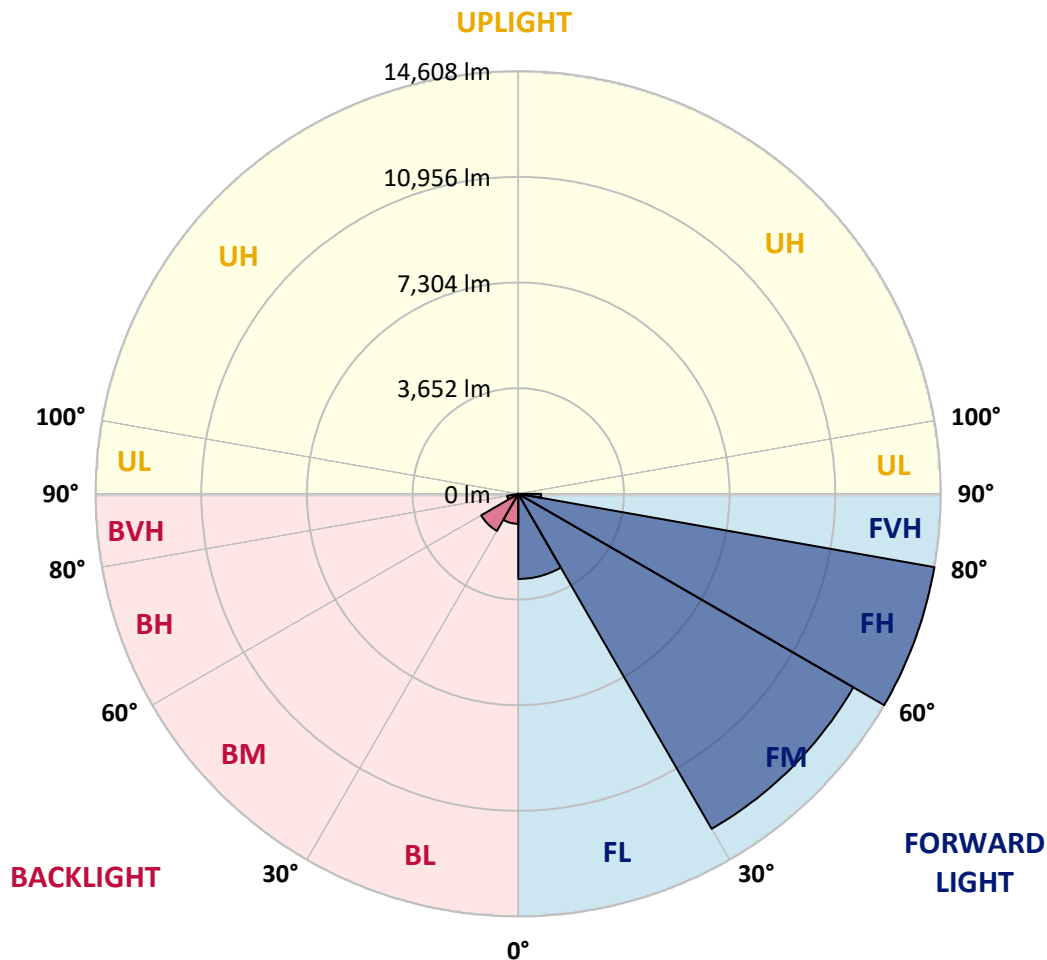
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2942.5	8.5			
FM (30°-60°)	13374.7	38.6			
FH (60°-80°)	14608.1	42.2			G5
FVH (80°-90°)	788.2	2.3			G5
BL (0°-30°)	1037.6	3.0	B3/2500		
BM (30°-60°)	1479.8	4.3	B2/2500		
BH (60°-80°)	389.3	1.1	B1/500		G1/500
BVH (80°-90°)	7.4	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	6367.9	6367.9	6367.9	6367.9	6367.9	6367.9	6367.9	6367.9	6367.9	6367.9	6367.9
2.5°	6759.0	6760.5	6744.7	6718.8	6685.7	6668.5	6639.7	6593.7	6544.8	6457.0	6362.1
5°	6897.1	6897.1	6877.0	6842.5	6789.2	6773.5	6718.8	6645.5	6544.8	6402.4	6242.8
7.5°	6882.7	6885.6	6858.2	6822.3	6769.1	6754.7	6688.6	6606.6	6481.5	6308.9	6104.7
10°	6807.9	6815.1	6793.6	6776.3	6727.5	6711.6	6649.8	6567.8	6442.7	6258.6	6024.1
12.5°	6731.7	6738.9	6746.1	6761.9	6731.7	6726.0	6677.1	6608.0	6488.7	6297.4	6032.8
15°	6682.8	6697.2	6749.0	6810.8	6818.0	6812.2	6780.6	6715.9	6595.1	6396.7	6094.7
17.5°	6682.8	6705.8	6813.7	6931.6	6973.3	6977.7	6950.3	6859.7	6715.9	6503.0	6152.1
20°	6738.9	6770.6	6938.8	7105.7	7174.7	7174.7	7121.4	6994.9	6826.7	6599.5	6191.0
22.5°	6882.7	6924.4	7135.8	7328.5	7401.9	7386.1	7314.1	7130.1	6941.7	6708.7	6239.9
25°	7166.0	7197.7	7417.7	7611.9	7656.4	7620.4	7529.9	7294.0	7088.3	6856.8	6329.0
27.5°	7531.3	7535.6	7762.9	7926.8	7899.4	7875.0	7761.4	7499.7	7299.8	7068.2	6482.9
30°	7932.5	7932.5	8132.4	8257.5	8174.1	8154.0	8040.4	7748.4	7570.1	7355.9	6701.6
32.5°	8320.8	8338.1	8500.6	8579.6	8486.2	8466.1	8355.3	8063.4	7929.6	7794.4	7042.3
35°	8696.2	8709.1	8862.9	8906.2	8816.9	8822.7	8743.6	8496.3	8446.0	8428.6	7555.8
37.5°	9060.0	9062.8	9219.6	9246.9	9202.4	9251.3	9258.5	9039.8	9133.4	9272.8	8279.1
40°	9392.2	9395.0	9550.4	9620.8	9697.0	9760.4	9816.5	9699.9	10009.1	10332.7	9140.5
42.5°	9658.3	9688.5	9885.5	10019.2	10220.6	10341.3	10493.8	10488.0	11051.8	11537.9	10181.7
45°	9892.7	9944.5	10219.1	10453.5	10798.7	10991.3	11230.1	11417.0	12225.3	12879.6	11235.9
47.5°	10201.8	10250.7	10564.2	10948.2	11408.4	11661.5	12057.0	12461.1	13515.2	14196.9	12265.5
50°	10637.6	10616.0	10925.2	11476.0	12067.1	12399.3	12963.0	13568.5	14795.1	15344.5	12870.9
52.5°	11102.1	11093.4	11322.1	12049.8	12843.6	13231.9	13976.8	14713.1	16018.9	16135.4	13148.5
55°	11677.3	11615.5	11808.2	12704.2	13765.5	14182.4	15059.7	15846.4	16993.9	16581.3	13288.0
57.5°	12279.8	12177.7	12361.8	13433.2	14805.2	15298.4	16259.1	16950.8	17642.6	16886.1	13286.6
60°	12902.6	12781.8	13000.4	14345.0	16096.6	16667.5	17559.1	17697.2	18248.0	17040.0	13188.8
62.5°	13423.1	13351.2	13676.2	15320.0	17539.0	18099.9	18541.3	18376.0	18758.5	17159.3	12960.1
65°	13974.0	13978.2	14503.2	16457.6	19072.0	19450.2	19487.6	19256.1	19185.6	17134.9	12186.4
67.5°	14718.9	14787.9	15663.7	18002.1	20563.4	20855.2	20852.3	20209.6	19497.7	16162.7	10470.8
70°	15507.0	15669.5	17001.1	19769.5	22191.2	22487.5	22335.1	20816.5	18358.8	13069.4	7410.5
72.5°	15374.6	15656.5	17744.7	20884.0	23360.4	23586.2	22595.3	19325.1	14510.3	7596.0	3155.2
75°	11861.4	12187.8	16270.6	19779.6	22133.7	21931.0	19414.3	15038.2	7929.6	2119.7	710.4
77.5°	6265.8	6439.8	10748.3	15068.3	17258.6	16834.4	13676.2	8342.4	2417.5	524.9	319.2
80°	3281.7	3322.0	4683.9	8549.5	10652.0	10654.9	8105.1	3664.2	996.6	268.9	214.3
82.5°	1757.4	1791.8	2474.9	3950.4	5581.3	5059.2	3103.5	2016.2	579.5	152.4	205.7
85°	422.8	430.0	1403.6	1804.8	2194.5	1567.5	921.9	1692.6	156.8	89.1	166.8
87.5°	162.5	165.3	520.5	780.9	559.4	362.4	431.4	631.3	20.1	34.6	25.9
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°	6367.9	6367.9	6367.9	6367.9	6367.9	6367.9	6367.9	6367.9	6367.9	6367.9	6367.9
2.5°	6304.6	6267.2	6175.1	6058.7	5955.1	5880.4	5768.2	5694.8	5645.9	5644.5	5625.8
5°	6145.0	6068.8	5870.3	5634.5	5420.2	5227.5	5000.3	4820.5	4686.7	4665.2	4619.2
7.5°	5973.8	5848.7	5543.8	5175.7	4816.2	4450.9	4026.7	3763.5	3537.7	3429.9	3418.3
10°	5868.8	5693.4	5260.5	4728.4	4164.8	3570.8	3015.7	2631.7	2354.1	2275.0	2216.1
12.5°	5847.3	5615.7	5042.0	4308.5	3503.2	2718.0	2103.9	1695.5	1474.1	1403.6	1384.8
15°	5868.8	5579.8	4857.9	3892.9	2833.0	1928.5	1412.2	1175.0	1091.5	1071.4	1070.0
17.5°	5881.8	5536.7	4649.4	3431.3	2183.0	1377.7	1081.4	1012.4	999.5	998.1	1000.9
20°	5880.4	5470.5	4400.5	2916.5	1623.6	1082.9	977.9	963.5	960.6	962.1	960.6
22.5°	5870.3	5392.8	4127.3	2385.8	1226.7	967.9	933.3	924.7	923.3	923.3	923.3
25°	5889.0	5331.1	3826.8	1878.2	1011.0	914.6	893.1	885.9	884.4	884.4	881.5
27.5°	5956.6	5296.5	3497.4	1445.3	913.2	867.2	849.9	848.5	844.2	842.7	845.6
30°	6065.9	5296.5	3136.5	1124.6	854.2	818.3	805.3	802.4	801.0	799.5	801.0
32.5°	6258.6	5336.7	2742.5	934.7	798.1	763.6	755.0	759.3	755.0	755.0	755.0
35°	6606.6	5457.6	2329.7	815.4	739.2	710.4	701.8	707.5	704.6	704.6	703.2
37.5°	7114.2	5681.9	1914.1	743.5	687.4	657.2	645.7	654.3	651.4	651.4	650.0
40°	7732.6	6008.4	1518.6	688.9	637.1	605.4	595.4	599.7	592.5	592.5	595.4
42.5°	8496.3	6422.6	1173.5	635.6	586.8	556.5	550.8	546.4	533.5	526.3	527.8
45°	9344.7	6854.0	914.6	583.9	539.3	514.9	506.2	494.7	473.1	458.8	460.2
47.5°	10102.6	7186.1	743.5	533.5	496.1	477.4	464.5	443.0	411.3	394.0	395.4
50°	10501.0	7236.4	632.8	483.2	455.9	437.2	418.5	385.4	348.0	329.3	327.9
52.5°	10603.1	7000.7	550.8	437.2	415.6	394.0	369.5	325.0	283.3	263.2	260.3
55°	10640.4	6641.1	477.4	394.0	372.4	348.0	316.4	266.0	227.2	207.1	205.7
57.5°	10516.8	6104.7	419.9	355.2	329.3	299.1	260.3	212.9	175.4	159.7	159.7
60°	10242.1	5378.5	375.3	313.5	284.8	250.2	210.0	165.3	130.9	117.9	117.9
62.5°	9694.2	4438.0	333.7	270.3	243.0	207.1	169.7	125.1	92.0	84.9	86.3
65°	8660.2	3366.6	291.9	231.5	207.1	171.1	132.3	89.1	61.9	61.9	64.7
67.5°	7062.4	2338.4	248.8	197.0	178.3	139.5	100.7	61.9	43.1	48.9	54.7
70°	4675.3	1311.5	212.9	162.5	152.4	110.8	74.8	41.7	34.6	46.0	56.1
72.5°	1764.5	510.5	178.3	130.9	132.3	84.9	53.2	31.7	31.7	50.3	66.1
75°	491.9	250.2	128.0	96.3	103.6	61.9	38.8	27.3	30.2	57.6	77.7
77.5°	289.1	184.1	83.4	56.1	70.4	43.1	25.9	21.6	25.9	48.9	74.8
80°	233.0	97.8	48.9	28.8	38.8	24.4	17.2	12.9	7.2	18.7	38.8
82.5°	233.0	59.0	23.0	20.1	20.1	12.9	8.7	5.8	1.4	0.0	10.1
85°	156.8	24.4	14.3	12.9	10.1	4.3	2.9	1.4	0.0	0.0	0.0
87.5°	25.9	10.1	5.8	2.9	1.4	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)