

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: P323643

Luminaire Tested: **GLEON-SA9B-827-U-SL3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323643  
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-SA9B-827-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 800mA 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: 32084 lumens  
Efficiency: N/A  
Efficacy: 85.8 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

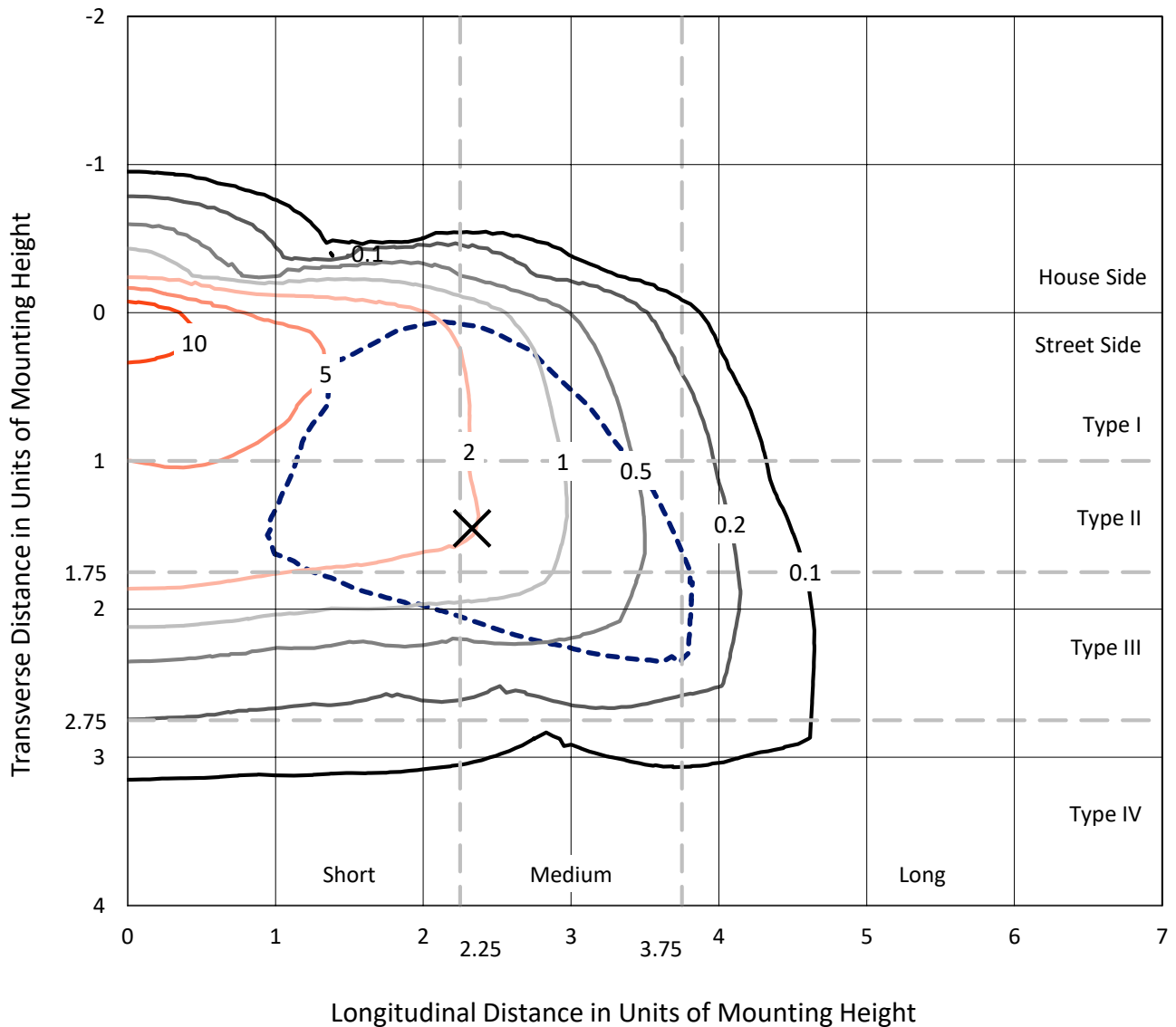
Input Watts (W): 374  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

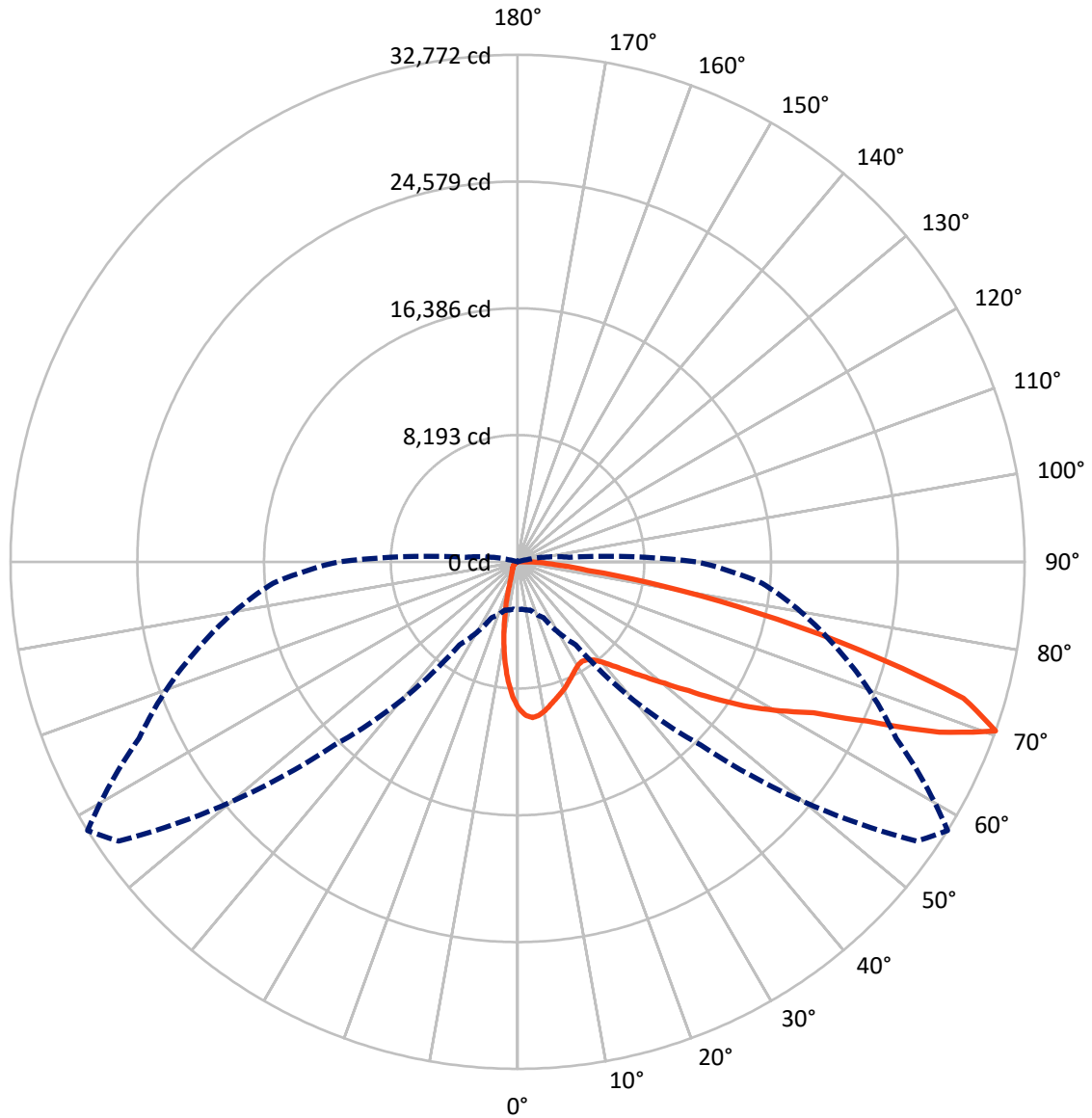
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 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	2745.7	0.0	2745.7
	% Fixture	8.6	0.0	8.6
<b>Street Side</b>	Lumens	29338.3	0.0	29338.3
	% Fixture	91.4	0.0	91.4
<b>Total</b>	Lumens	32084.0	0.0	32084.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	775.0	2.4
10°-20°	1626.6	5.1
20°-30°	2138.4	6.7
30°-40°	2832.0	8.8
40°-50°	4233.0	13.2
50°-60°	6781.2	21.1
60°-70°	8547.6	26.6
70°-80°	4610.5	14.4
80°-90°	539.7	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°	32084.0	100.0
0°-180°	32084.0	100.0

**Coefficient of Utilization**

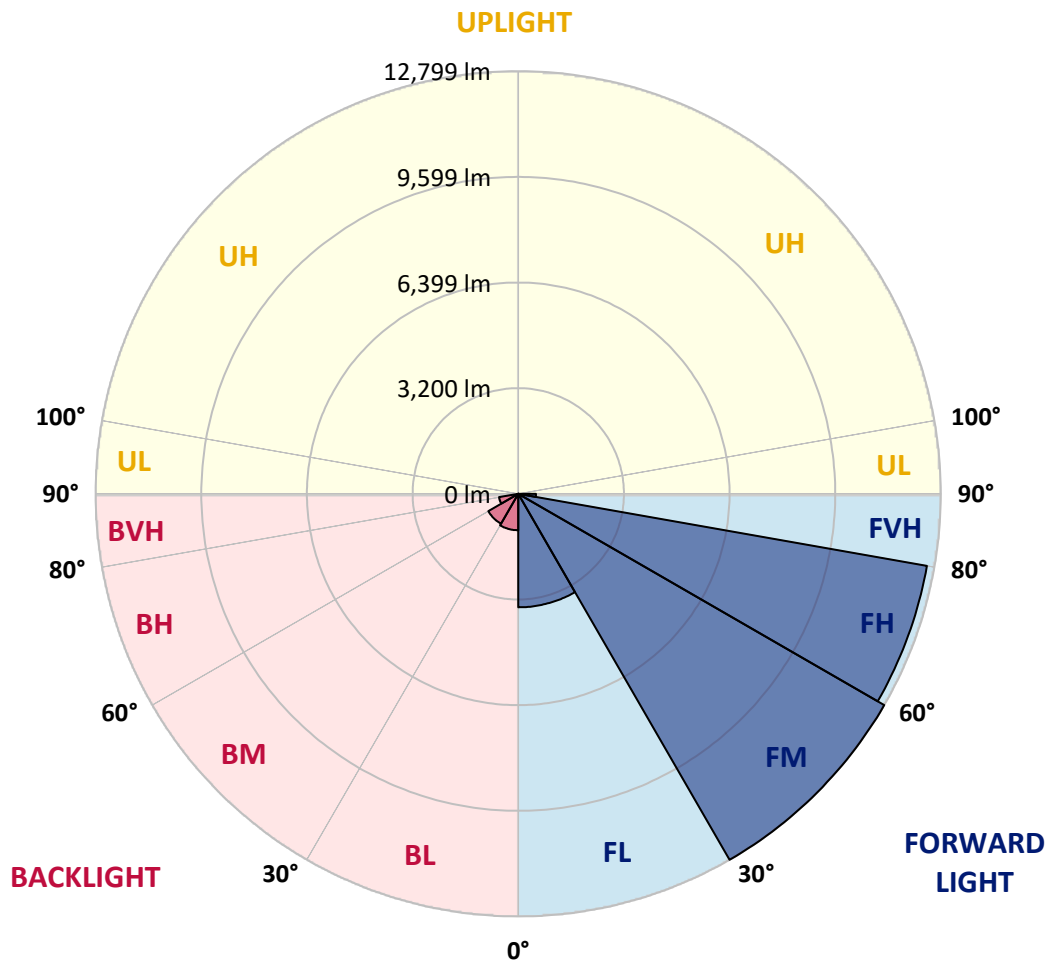


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3436.9	10.7			
FM (30°-60°)	12798.8	39.9			
FH (60°-80°)	12567.6	39.2			G5
FVH (80°-90°)	535.0	1.7			G4/750
BL (0°-30°)	1103.1	3.4	B3/2500		
BM (30°-60°)	1047.4	3.3	B2/2500		
BH (60°-80°)	590.5	1.8	B2/1000		G2/1000
BVH (80°-90°)	4.7	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°	9477.5	9477.5	9477.5	9477.5	9477.5	9477.5	9477.5	9477.5	9477.5	9477.5	9477.5
2.5°	10263.2	10237.9	10228.6	10212.6	10151.2	10091.1	9972.4	9939.1	9864.4	9686.9	9498.8
5°	10271.3	10269.9	10297.9	10291.3	10269.9	10241.9	10156.5	10112.5	9985.8	9732.3	9388.1
7.5°	9776.3	9801.6	9864.4	9915.0	9973.7	10049.8	10060.5	10017.8	9913.7	9640.2	9184.0
10°	9111.9	9151.9	9240.0	9340.0	9493.5	9645.6	9781.6	9776.3	9740.3	9470.8	8938.5
12.5°	8446.2	8492.9	8594.3	8742.4	8959.8	9208.0	9450.8	9484.1	9544.2	9318.7	8711.7
15°	7863.2	7903.2	8003.3	8184.7	8454.2	8787.7	9143.9	9205.3	9360.1	9200.0	8522.2
17.5°	7368.2	7393.6	7467.0	7668.4	7980.6	8384.8	8847.8	8967.8	9198.6	9106.6	8358.2
20°	7022.7	7026.7	7074.7	7216.2	7528.3	7980.6	8540.9	8713.0	9027.9	9026.5	8188.7
22.5°	6851.9	6838.6	6847.9	6929.3	7158.8	7595.0	8234.1	8438.2	8874.4	8958.5	8016.6
25°	6819.9	6809.3	6782.6	6793.2	6932.0	7257.5	7924.6	8160.7	8739.7	8917.1	7867.2
27.5°	6920.0	6930.7	6885.3	6837.3	6847.9	7038.7	7649.7	7923.2	8630.3	8917.1	7761.8
30°	7121.4	7126.8	7093.4	7030.7	6946.7	6977.4	7459.0	7732.5	8575.6	8978.5	7695.1
32.5°	7344.2	7373.6	7369.6	7318.9	7198.8	7074.7	7413.6	7663.1	8571.6	9114.6	7688.4
35°	7620.4	7653.7	7709.8	7699.1	7573.7	7369.6	7568.4	7764.5	8650.3	9338.7	7760.5
37.5°	7913.9	7964.6	8084.7	8142.0	8060.6	7829.8	7915.2	8055.3	8861.1	9701.6	7943.2
40°	8198.1	8255.4	8474.2	8699.7	8638.3	8400.8	8440.9	8552.9	9236.0	10223.2	8290.1
42.5°	8476.9	8562.3	8883.8	9254.7	9328.0	9138.6	9159.9	9249.3	9792.3	10941.0	8857.1
45°	8810.4	8906.5	9382.7	9840.3	10036.5	9953.7	10044.5	10103.2	10519.4	11889.5	9621.5
47.5°	9300.0	9410.8	9995.1	10516.7	10860.9	10914.3	11097.1	11135.8	11438.6	12994.2	10618.1
50°	10255.2	10285.9	10814.2	11287.8	11784.1	12104.3	12312.4	12341.8	12551.2	14201.5	11862.8
52.5°	11457.3	11477.3	11776.1	12093.6	12658.0	13311.7	13798.6	13840.0	13884.0	15378.2	13091.5
55°	12651.3	12648.6	12846.1	13032.8	13678.5	14628.4	15685.0	15710.4	15394.2	16494.8	14030.8
57.5°	13397.1	13469.1	13769.3	14009.4	14911.3	16129.3	17595.5	17688.9	16980.5	17322.0	14959.3
60°	13159.6	13194.3	13860.0	14748.5	16446.8	18262.5	19528.6	19552.6	18173.1	18147.8	16133.3
62.5°	11211.8	11230.5	12276.4	14108.1	17224.6	21029.5	21860.6	21469.7	19544.6	19293.8	17538.1
65°	7684.4	7805.8	8679.7	10943.6	15795.8	22765.1	25470.7	24823.6	21635.1	20945.4	18808.2
67.5°	4525.3	4499.9	4932.2	6599.8	11601.4	21612.5	30037.3	29394.3	24486.1	22051.4	18436.0
70°	3091.1	3073.8	3239.2	3995.6	6549.1	16765.7	31474.1	32772.2	27003.6	21306.9	15866.5
72.5°	2206.6	2215.9	2460.1	3104.5	4111.7	9768.3	27066.3	30138.7	26215.1	18574.7	12060.3
75°	1498.2	1523.5	1873.1	2546.8	3604.7	4969.5	19207.1	22910.5	21347.0	13499.8	6932.0
77.5°	805.8	833.8	1246.1	2051.8	3259.2	3452.7	12355.1	15767.8	13409.1	6068.8	2009.2
80°	336.2	352.2	583.0	1491.5	2816.3	3032.4	7269.5	9561.5	5714.0	1196.7	448.3
82.5°	145.4	153.4	242.8	889.8	2105.2	2560.1	3848.9	4600.0	1731.7	262.8	225.5
85°	28.0	29.4	100.1	470.9	1343.4	1444.8	2494.8	2445.4	777.8	113.4	164.1
87.5°	0.0	0.0	24.0	148.1	394.9	787.1	1522.2	1503.5	264.2	54.7	61.4
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°	9477.5	9477.5	9477.5	9477.5	9477.5	9477.5	9477.5	9477.5	9477.5	9477.5	9477.5
2.5°	9402.8	9310.7	9117.3	8878.4	8695.7	8494.2	8334.1	8131.4	8043.3	8047.3	7999.3
5°	9192.0	9002.5	8574.3	8034.0	7617.7	7188.1	6818.6	6450.4	6232.9	6162.2	6095.5
7.5°	8890.5	8590.3	7907.2	7074.7	6370.3	5681.9	5082.9	4556.0	4222.4	4059.7	3999.6
10°	8550.3	8128.7	7140.1	6043.5	5037.6	4106.4	3329.9	2654.9	2385.4	2202.6	2155.9
12.5°	8251.4	7680.4	6390.3	4985.5	3791.5	2668.2	1927.8	1507.5	1324.8	1252.7	1240.7
15°	7969.9	7261.5	5668.6	4027.7	2625.5	1642.3	1226.0	1083.3	1040.6	1028.6	1028.6
17.5°	7704.4	6862.6	4962.9	3084.4	1737.0	1151.3	1015.3	983.2	969.9	968.6	969.9
20°	7426.9	6463.7	4269.1	2260.0	1212.7	975.2	937.9	920.5	916.5	916.5	916.5
22.5°	7161.5	6064.8	3594.1	1614.3	972.6	889.8	871.2	859.2	855.2	853.8	851.2
25°	6906.6	5685.9	2935.0	1140.7	853.8	815.1	799.1	783.1	771.1	764.4	760.4
27.5°	6697.2	5348.4	2321.3	915.2	771.1	737.8	717.7	693.7	664.4	651.0	645.7
30°	6530.4	5040.2	1789.0	772.4	693.7	660.4	629.7	588.3	545.6	523.0	521.6
32.5°	6399.7	4737.4	1358.1	683.1	624.4	583.0	539.0	486.9	437.6	412.2	410.9
35°	6335.7	4470.6	1037.9	617.7	563.0	511.0	456.3	398.9	350.9	326.9	324.2
37.5°	6378.3	4245.1	809.8	563.0	511.0	450.9	386.9	326.9	284.2	262.8	261.5
40°	6534.4	4101.0	657.7	516.3	466.9	393.6	324.2	268.2	232.1	214.8	213.5
42.5°	6866.6	4047.7	561.7	477.6	424.2	340.2	269.5	221.5	188.1	176.1	173.4
45°	7421.6	4126.4	496.3	440.3	380.2	289.5	222.8	181.4	152.1	142.7	141.4
47.5°	8160.7	4333.2	449.6	404.2	340.2	244.1	185.4	146.8	124.1	114.7	113.4
50°	9113.3	4661.4	410.9	368.2	302.8	206.8	153.4	116.1	96.1	89.4	89.4
52.5°	10149.8	5052.2	376.2	334.9	265.5	172.1	124.1	89.4	76.0	68.0	68.0
55°	11006.3	5393.8	338.9	309.5	220.1	142.7	94.7	68.0	56.0	52.0	52.0
57.5°	11861.5	5758.0	296.2	265.5	176.1	116.1	72.0	50.7	41.4	38.7	38.7
60°	12970.1	6203.6	254.8	216.1	138.7	88.1	53.4	36.0	30.7	29.4	29.4
62.5°	14189.5	6465.1	217.5	173.4	108.1	65.4	38.7	24.0	22.7	22.7	21.3
65°	14935.3	6095.5	182.8	138.7	84.0	49.4	25.3	17.3	20.0	18.7	16.0
67.5°	13984.1	4772.1	149.4	108.1	65.4	37.4	16.0	12.0	21.3	17.3	13.3
70°	11578.7	3340.6	116.1	76.0	52.0	32.0	10.7	8.0	22.7	17.3	10.7
72.5°	8665.0	2236.0	92.1	50.7	38.7	28.0	9.3	4.0	20.0	14.7	9.3
75°	4734.7	900.5	73.4	32.0	24.0	20.0	6.7	2.7	13.3	10.7	6.7
77.5°	1246.1	237.5	53.4	21.3	13.3	8.0	4.0	1.3	6.7	5.3	2.7
80°	317.5	92.1	34.7	14.7	9.3	4.0	0.0	0.0	1.3	0.0	0.0
82.5°	169.4	38.7	21.3	10.7	5.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	128.1	25.3	12.0	6.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	49.4	8.0	4.0	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)