

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: P322051

Luminaire Tested: **GLEON-SA7C-827-U-T2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322051  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA7C-827-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26164 lumens  
Efficiency: N/A  
Efficacy: 66.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4

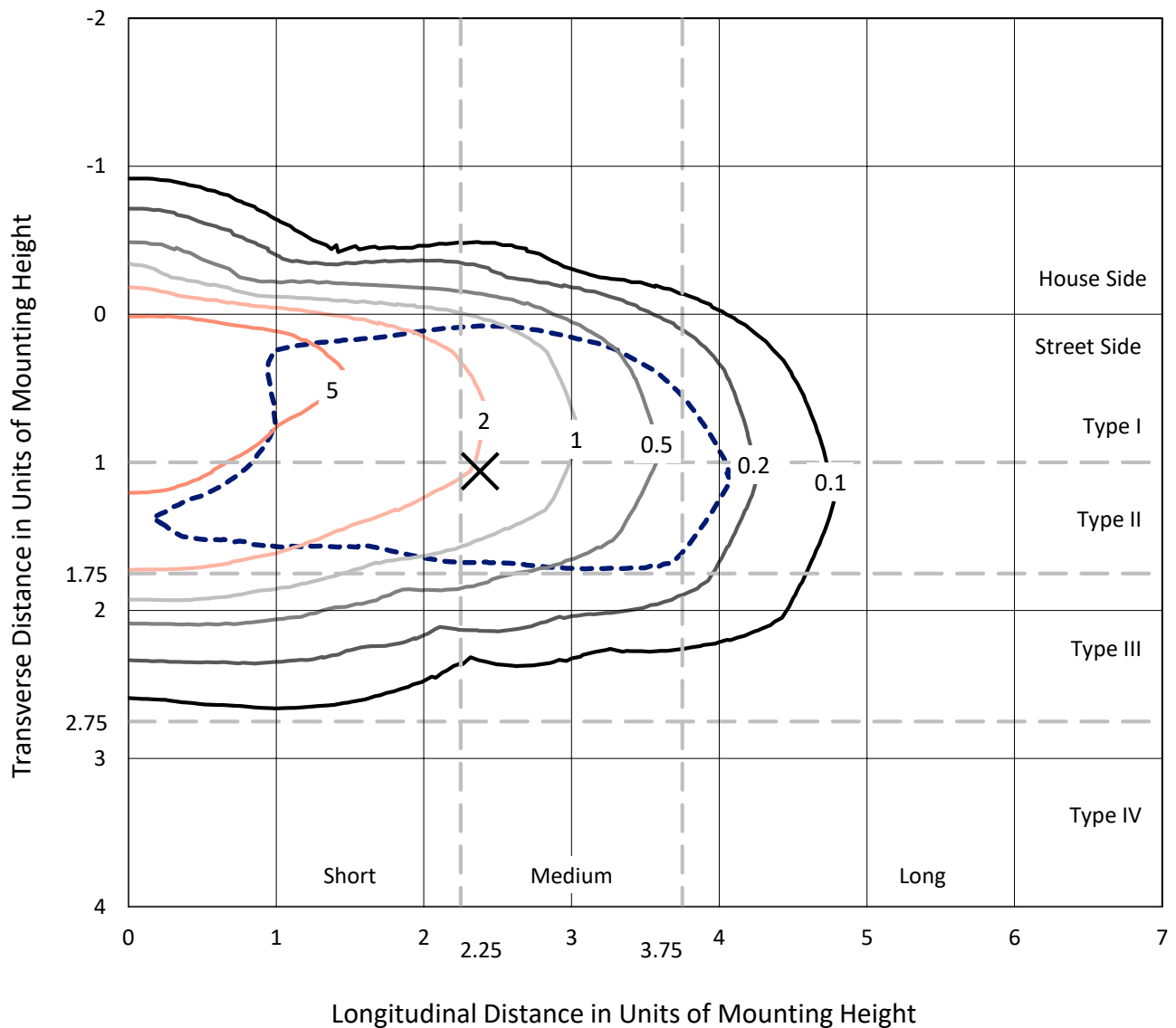
Input Watts (W): 391  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

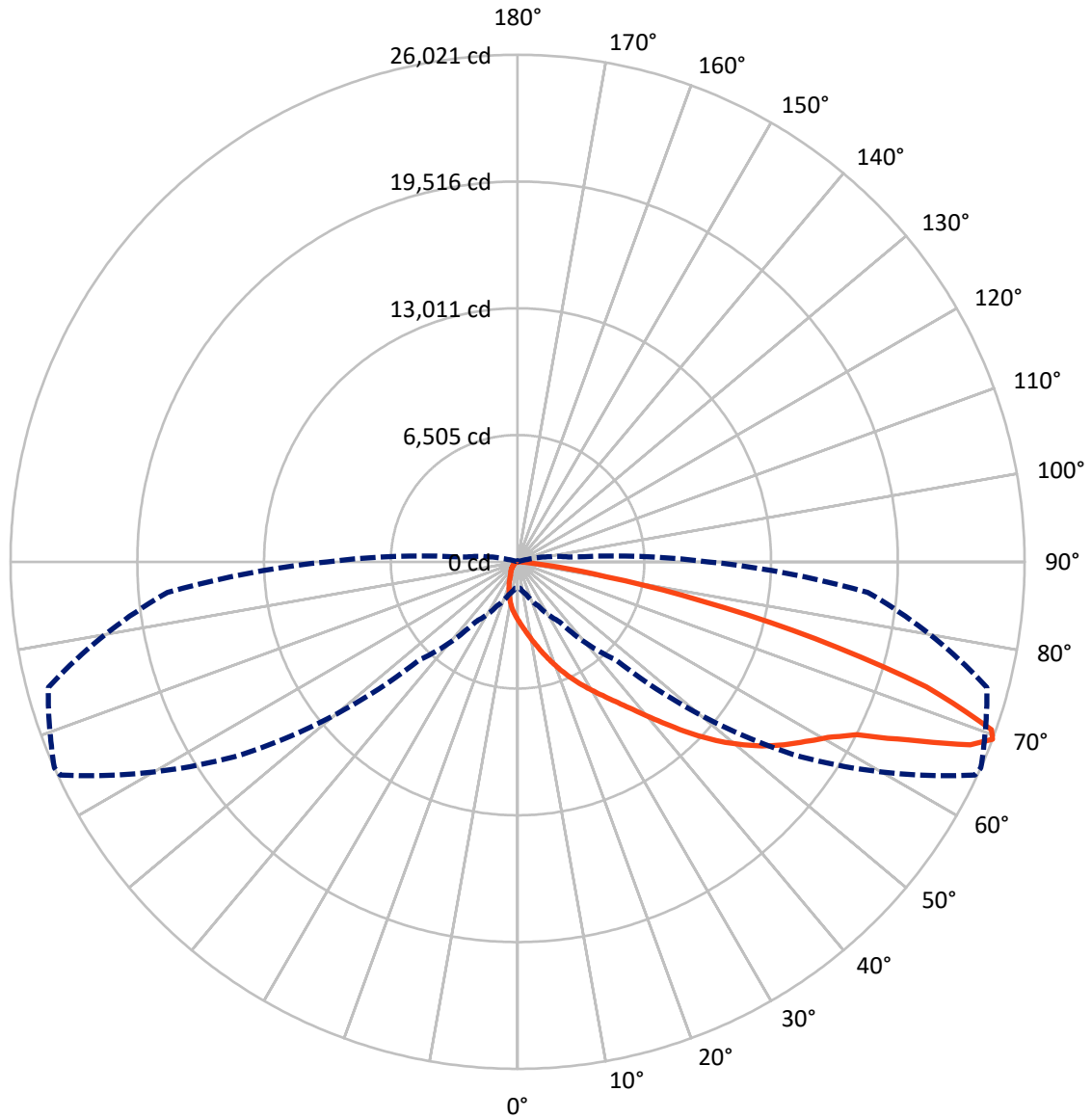
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1569.5	0.0	1569.5
	% Fixture	6.0	0.0	6.0
<b>Street Side</b>	Lumens	24594.5	0.0	24594.5
	% Fixture	94.0	0.0	94.0
<b>Total</b>	Lumens	26164.0	0.0	26164.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	287.8	1.1
10°-20°	856.6	3.3
20°-30°	1491.7	5.7
30°-40°	2617.1	10.0
40°-50°	4380.6	16.7
50°-60°	6439.1	24.6
60°-70°	6611.4	25.3
70°-80°	3263.8	12.5
80°-90°	215.8	0.8
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°	26164.0	100.0
0°-180°	26164.0	100.0

**Coefficient of Utilization**

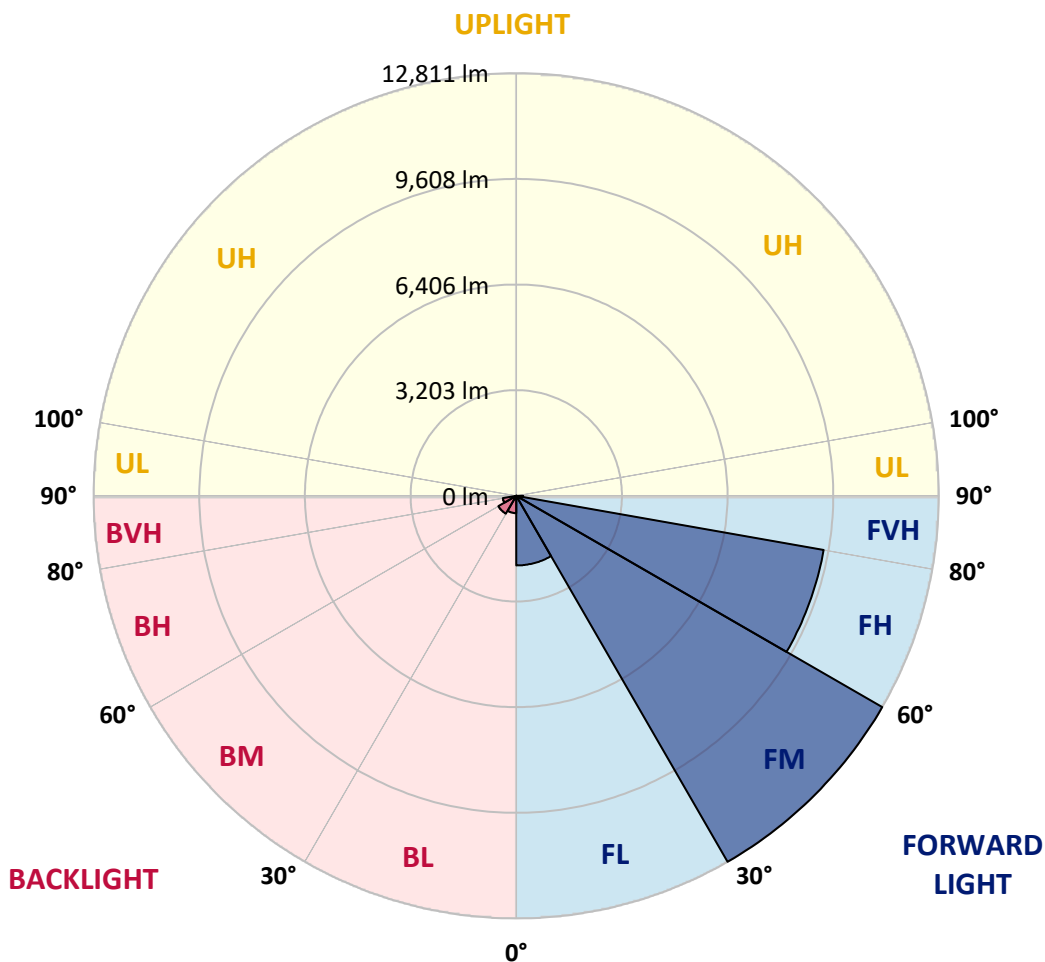


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2111.2	8.1			
FM (30°-60°)	12811.1	49.0			
FH (60°-80°)	9461.6	36.2			G4/12000
FVH (80°-90°)	210.6	0.8			G2/225
BL (0°-30°)	524.9	2.0	B2/1000		
BM (30°-60°)	625.8	2.4	B1/1000		
BH (60°-80°)	413.6	1.6	B1/500		G1/500
BVH (80°-90°)	5.2	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-G4**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2977.5	2977.5	2977.5	2977.5	2977.5	2977.5	2977.5	2977.5	2977.5	2977.5	2977.5
2.5°	3504.5	3489.5	3483.3	3456.0	3408.8	3372.7	3303.1	3222.4	3207.4	3129.2	3033.5
5°	3959.3	3946.9	3938.2	3899.6	3851.2	3760.5	3633.7	3483.3	3454.8	3305.6	3114.2
7.5°	4276.2	4298.6	4298.6	4273.7	4212.8	4144.5	3989.1	3784.1	3748.0	3519.4	3222.4
10°	4461.3	4488.7	4509.8	4530.9	4522.2	4494.9	4348.3	4117.1	4073.6	3770.4	3347.9
12.5°	4478.7	4506.1	4565.7	4654.0	4739.7	4801.9	4709.9	4486.2	4436.5	4061.2	3497.0
15°	4381.8	4410.4	4502.4	4673.9	4881.4	5062.8	5092.6	4895.1	4844.1	4407.9	3683.4
17.5°	4212.8	4231.4	4363.2	4600.5	4926.1	5259.2	5439.4	5333.7	5286.5	4804.3	3890.9
20°	4087.3	4101.0	4216.5	4471.3	4898.8	5382.2	5767.4	5799.8	5750.0	5229.3	4115.9
22.5°	4302.3	4327.1	4330.9	4451.4	4824.2	5443.1	6055.8	6258.3	6221.0	5680.5	4337.1
25°	4890.1	4918.7	4824.2	4749.7	4887.6	5470.4	6303.1	6728.1	6698.2	6166.4	4559.5
27.5°	5666.8	5696.6	5574.8	5352.4	5219.4	5573.6	6523.0	7205.3	7204.0	6680.8	4799.4
30°	6429.8	6459.6	6335.4	6112.9	5807.2	5865.6	6713.2	7704.8	7712.3	7211.5	5054.1
32.5°	7230.1	7267.4	7139.4	6853.6	6534.2	6370.2	6980.3	8206.9	8249.1	7826.6	5341.2
35°	8139.8	8144.8	7964.6	7665.1	7297.2	7045.0	7409.1	8769.8	8870.5	8588.4	5705.3
37.5°	9032.1	9068.1	8920.2	8448.0	8110.0	7824.1	8046.6	9473.2	9616.1	9519.2	6181.3
40°	9693.2	9769.0	9747.9	9238.3	8917.7	8713.9	8838.2	10309.6	10491.0	10602.9	6781.5
42.5°	10108.3	10165.4	10262.3	9955.4	9664.6	9698.2	9772.7	11283.9	11507.5	11838.1	7471.2
45°	10584.2	10611.6	10692.3	10556.9	10360.5	10698.5	10764.4	12381.2	12616.1	13166.6	8236.7
47.5°	11165.8	11230.4	11252.8	11128.5	11039.0	11583.4	11720.1	13379.1	13708.4	14589.5	9047.0
50°	11906.5	11923.9	11962.4	11881.6	11792.1	12343.9	12577.5	14426.7	14726.2	16017.4	9846.0
52.5°	12631.0	12693.1	12827.3	12776.4	12740.3	12991.4	13341.8	15371.2	15705.4	17207.9	10643.9
55°	12839.7	12893.2	13356.7	13673.6	13966.9	13789.2	14072.5	16217.4	16579.1	18271.7	11411.9
57.5°	12005.9	12114.0	12916.8	13742.0	14958.6	15029.4	15076.6	17086.1	17410.4	19086.9	12210.9
60°	9898.2	9919.4	11236.6	12652.1	14794.5	16111.8	16543.0	18019.4	18291.5	19846.2	13167.8
62.5°	6295.6	6510.6	7955.9	9954.2	13059.7	15955.2	18316.4	19431.1	19530.5	20757.1	14539.8
65°	2998.7	3137.9	4179.3	6150.2	9459.6	13950.7	19540.5	21984.9	22029.6	22562.7	16372.8
67.5°	1660.3	1727.4	2223.2	3310.6	5530.1	9865.9	19045.9	25009.7	25051.9	24406.9	17980.9
69°	1298.6	1355.8	1746.0	2495.4	3749.3	7090.9	17235.2	25895.7	26021.2	24935.1	18038.0
70°	1102.3	1158.2	1503.7	2107.6	3014.8	5479.1	15341.3	25675.8	25808.7	24885.4	17611.8
72.5°	674.8	707.1	1001.6	1483.8	2020.7	2756.3	9460.8	21714.0	21938.9	22827.4	15136.3
75°	454.8	472.2	626.3	1024.0	1445.3	1419.2	4914.9	15305.3	15792.4	17757.2	11179.5
77.5°	325.6	341.7	420.0	662.4	1012.8	937.0	2225.7	9511.7	9616.1	10650.1	6096.8
80°	185.2	200.1	297.0	393.9	687.2	625.1	884.8	4543.4	4595.6	4567.0	2035.6
82.5°	96.9	109.4	162.8	259.7	441.2	408.9	367.8	1521.1	1528.5	1271.3	446.1
85°	18.6	22.4	80.8	177.7	227.4	177.7	150.4	356.7	364.1	321.9	110.6
87.5°	0.0	1.2	32.3	39.8	44.7	46.0	48.5	69.6	74.6	100.7	29.8
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°	2977.5	2977.5	2977.5	2977.5	2977.5	2977.5	2977.5	2977.5	2977.5	2977.5	2977.5
2.5°	2991.2	2946.5	2860.7	2761.3	2684.3	2608.5	2548.8	2486.7	2464.3	2453.1	2451.9
5°	3021.0	2926.6	2745.2	2558.8	2405.9	2261.7	2158.6	2060.4	2014.4	1993.3	1984.6
7.5°	3070.8	2919.1	2627.1	2342.5	2122.6	1942.4	1799.5	1692.6	1639.1	1616.8	1608.1
10°	3129.2	2909.2	2489.2	2113.9	1833.0	1646.6	1504.9	1399.3	1340.9	1316.0	1303.6
12.5°	3197.5	2891.8	2330.1	1882.7	1585.7	1399.3	1227.8	1097.3	1030.2	1001.6	988.0
15°	3282.0	2874.4	2163.6	1665.2	1368.2	1140.8	953.2	864.9	851.3	846.3	847.5
17.5°	3365.3	2847.1	1982.1	1450.2	1139.6	891.0	795.3	790.4	792.9	792.9	792.9
20°	3439.8	2784.9	1784.5	1266.3	922.1	751.8	732.0	723.3	717.0	712.1	705.9
22.5°	3498.2	2701.7	1594.4	1083.6	753.1	688.5	657.4	630.1	607.7	592.8	585.3
25°	3538.0	2591.1	1420.4	908.4	677.3	626.3	570.4	524.4	489.6	468.5	459.8
27.5°	3567.8	2471.8	1265.1	760.5	625.1	554.3	480.9	426.3	390.2	371.6	364.1
30°	3589.0	2336.3	1128.4	668.6	566.7	478.4	400.2	346.7	320.6	310.7	305.7
32.5°	3608.8	2185.9	999.1	625.1	512.0	408.9	335.5	294.5	278.4	265.9	262.2
35°	3658.6	2046.8	876.1	579.1	456.1	349.2	288.3	258.5	242.3	234.9	232.4
37.5°	3776.6	1943.6	758.1	531.9	400.2	302.0	252.3	231.1	216.2	208.8	206.3
40°	3966.7	1891.4	658.6	480.9	345.5	265.9	228.7	208.8	192.6	181.4	179.0
42.5°	4246.4	1898.9	589.0	430.0	302.0	237.4	206.3	182.7	165.3	155.3	152.9
45°	4585.6	1953.5	540.6	380.3	265.9	215.0	181.4	156.6	140.4	131.7	129.2
47.5°	4953.5	2041.8	500.8	335.5	237.4	193.9	156.6	130.5	116.8	109.4	108.1
50°	5341.2	2127.5	459.8	292.0	212.5	172.7	131.7	108.1	96.9	90.7	88.2
52.5°	5733.9	2226.9	422.5	252.3	191.4	147.9	109.4	88.2	79.5	74.6	72.1
55°	6156.4	2301.5	386.5	221.2	170.3	125.5	90.7	73.3	65.9	59.7	58.4
57.5°	6653.5	2417.1	349.2	191.4	145.4	104.4	74.6	58.4	52.2	46.0	44.7
60°	7324.6	2552.5	309.4	169.0	119.3	85.7	60.9	47.2	39.8	34.8	33.6
62.5°	8209.4	2702.9	259.7	147.9	96.9	69.6	48.5	37.3	28.6	22.4	22.4
65°	9331.6	2947.7	212.5	124.3	79.5	57.2	37.3	27.3	16.2	9.9	9.9
67.5°	9986.5	2990.0	171.5	101.9	64.6	48.5	31.1	18.6	5.0	1.2	0.0
69°	9776.4	2745.2	145.4	87.0	55.9	46.0	28.6	13.7	2.5	0.0	0.0
70°	9381.3	2510.3	128.0	77.0	51.0	43.5	27.3	9.9	2.5	0.0	0.0
72.5°	7752.1	1787.0	96.9	57.2	37.3	38.5	24.9	6.2	2.5	0.0	0.0
75°	5646.9	1086.1	69.6	39.8	23.6	28.6	17.4	2.5	1.2	0.0	0.0
77.5°	3141.6	512.0	43.5	22.4	14.9	17.4	8.7	0.0	0.0	0.0	0.0
80°	1020.3	139.2	19.9	12.4	8.7	9.9	3.7	0.0	0.0	0.0	0.0
82.5°	188.9	39.8	11.2	6.2	2.5	2.5	0.0	0.0	0.0	0.0	0.0
85°	41.0	16.2	6.2	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.7	5.0	1.2	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)