

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: P454934

Luminaire Tested: **GALN-SA6A-750-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454934  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6A-750-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5000K, 615mA 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: 20272 lumens  
Efficiency: N/A  
Efficacy: 111.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3

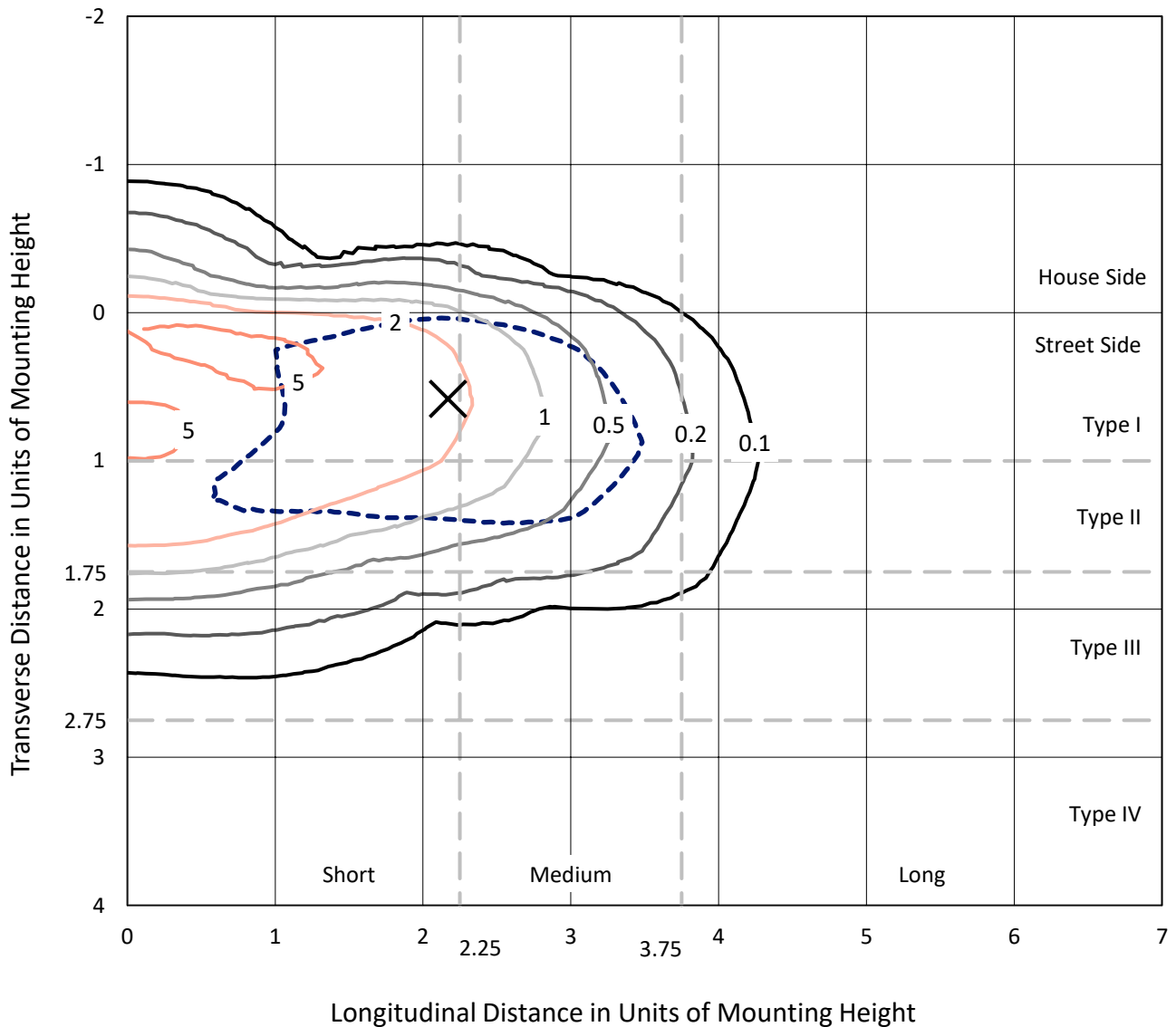
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

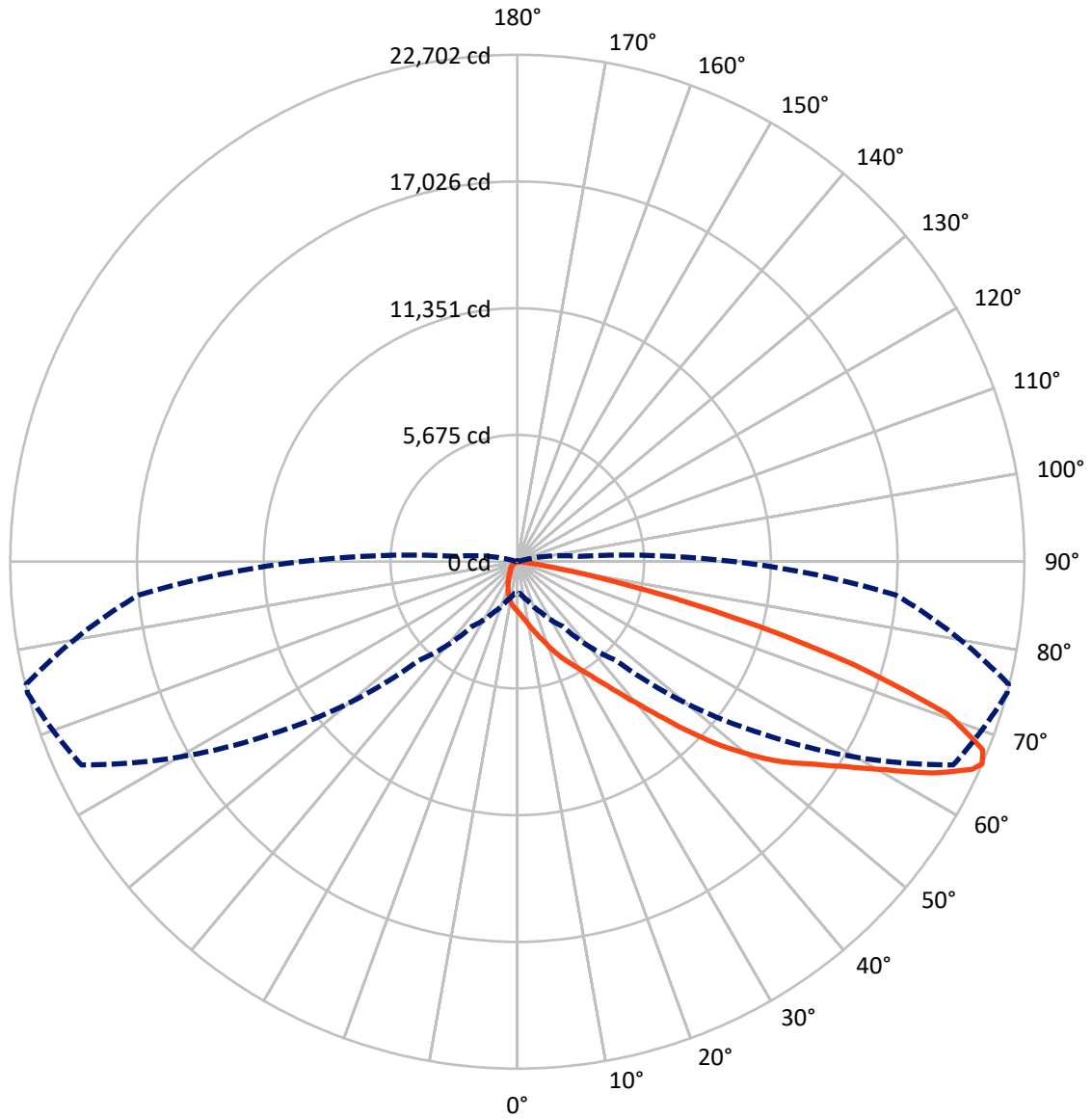
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1251.5	0.0	1251.5
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	19020.5	0.0	19020.5
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	20272.0	0.0	20272.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	213.8	1.1
10°-20°	629.3	3.1
20°-30°	1086.7	5.4
30°-40°	1960.1	9.7
40°-50°	3541.0	17.5
50°-60°	5520.5	27.2
60°-70°	5244.2	25.9
70°-80°	1965.4	9.7
80°-90°	110.9	0.5
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°	20272.0	100.0
0°-180°	20272.0	100.0

**Coefficient of Utilization**



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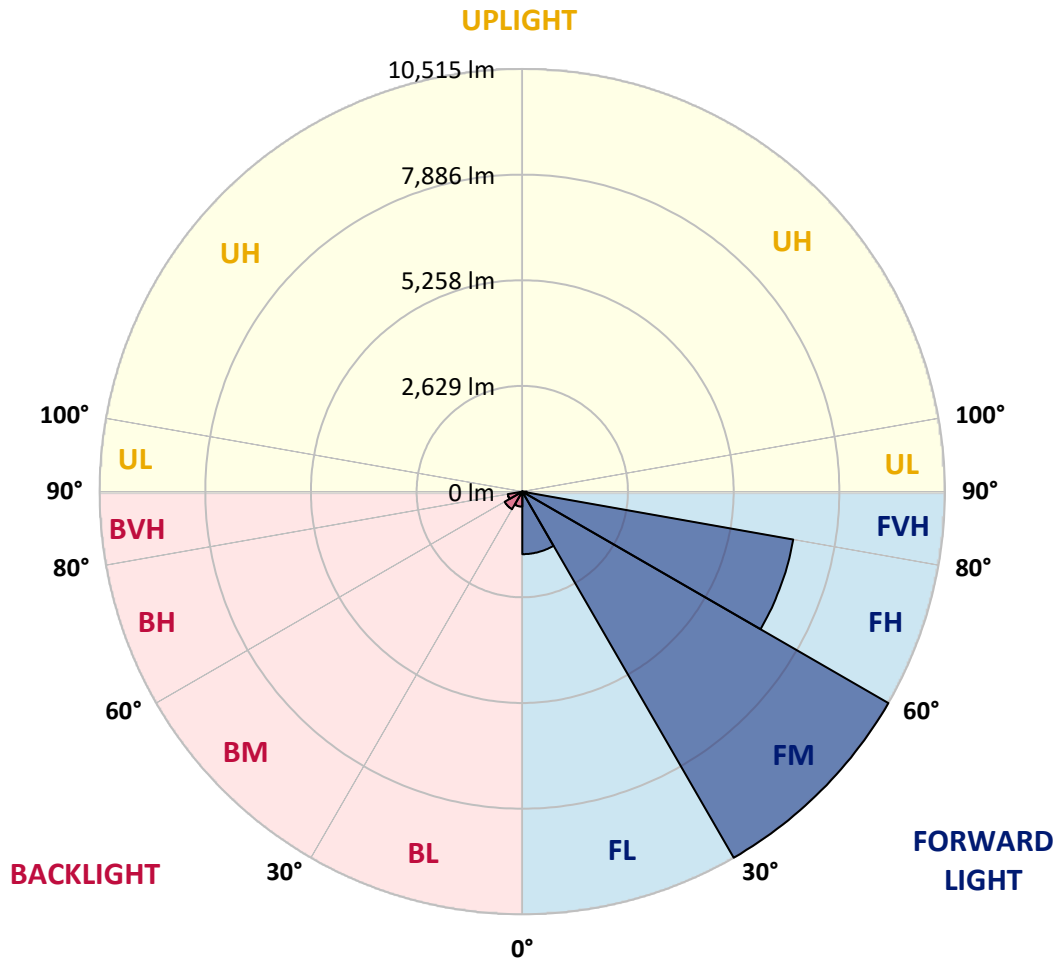
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1556.1	7.7			
FM (30°-60°)	10515.1	51.9			
FH (60°-80°)	6844.2	33.8			G3/7500
FVH (80°-90°)	105.2	0.5			G2/225
BL (0°-30°)	373.8	1.8	B1/500		
BM (30°-60°)	506.6	2.5	B1/1000		
BH (60°-80°)	365.5	1.8	B1/500		G1/500
BVH (80°-90°)	5.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2216.9	2216.9	2216.9	2216.9	2216.9	2216.9	2216.9	2216.9	2216.9	2216.9	2216.9
2.5°	2648.6	2615.7	2626.2	2611.2	2576.7	2525.7	2480.8	2416.3	2351.8	2341.4	2269.4
5°	2997.9	2988.9	2976.9	2933.4	2909.5	2831.5	2738.6	2627.7	2494.2	2470.3	2339.9
7.5°	3236.2	3231.7	3237.7	3215.2	3194.3	3123.8	3024.9	2873.5	2666.6	2653.1	2435.8
10°	3314.2	3326.2	3348.6	3384.6	3417.6	3395.1	3320.2	3131.3	2890.0	2851.0	2545.2
12.5°	3269.2	3282.7	3336.7	3432.6	3539.0	3600.5	3570.5	3432.6	3126.8	3095.3	2668.1
15°	3153.8	3170.3	3246.7	3395.1	3585.5	3759.4	3834.3	3735.4	3402.6	3351.6	2816.5
17.5°	2982.9	3006.9	3116.3	3312.7	3573.5	3873.3	4084.6	4051.7	3696.4	3648.4	2978.4
20°	2854.0	2872.0	2964.9	3189.8	3522.5	3936.2	4323.0	4415.9	4059.2	3976.7	3168.8
22.5°	2939.4	2945.4	2976.9	3111.8	3431.1	3952.7	4532.8	4795.1	4444.4	4370.9	3366.6
25°	3357.6	3297.7	3266.2	3236.2	3411.6	3937.7	4723.2	5190.9	4828.1	4750.2	3563.0
27.5°	4017.2	3990.2	3831.3	3618.5	3578.0	3957.2	4849.1	5565.6	5189.4	5105.4	3754.9
30°	4735.2	4688.7	4591.3	4279.5	3966.2	4095.1	4940.5	5929.8	5616.6	5505.6	3930.2
32.5°	5394.7	5424.7	5279.3	4958.5	4595.8	4388.9	5058.9	6327.1	6106.7	5968.8	4134.1
35°	6163.7	6223.6	6000.3	5693.0	5268.8	4919.5	5289.8	6775.2	6728.8	6554.9	4448.9
37.5°	6944.6	6980.6	6844.2	6412.5	6030.3	5594.1	5724.5	7328.4	7494.7	7346.3	4825.1
40°	7601.2	7650.6	7550.2	7166.5	6758.8	6375.0	6355.5	7930.9	8406.1	8253.2	5385.7
42.5°	8103.3	8140.8	8143.8	7872.5	7505.2	7331.4	7160.5	8699.9	9548.3	9371.4	6036.3
45°	8737.4	8791.3	8759.9	8575.5	8301.2	8269.7	8181.3	9629.2	10915.3	10692.0	6880.2
47.5°	9717.7	9753.7	9675.7	9458.4	9179.6	9229.0	9176.6	10671.0	12309.4	12117.5	7754.1
50°	10398.2	10458.2	10569.1	10656.0	10453.7	10270.8	10114.9	11643.8	13632.9	13460.5	8647.4
52.5°	10390.7	10489.6	10840.4	11278.1	11720.3	11664.8	11216.6	12718.6	14896.5	14683.7	9486.8
55°	9690.7	9882.6	10398.2	11174.7	12399.3	13009.4	12805.5	13962.7	15987.8	15843.9	10459.7
57.5°	8245.7	8362.6	9079.1	10164.4	12020.1	13641.9	14646.2	15649.0	17296.4	17228.9	11970.6
60°	5546.1	5598.6	6520.4	7862.0	10233.3	13010.9	15995.3	17689.1	18907.7	18874.7	13734.9
62.5°	3177.8	3200.3	3868.8	5000.5	7281.9	11026.3	16109.2	20205.8	20839.9	20857.9	15776.4
65°	1710.3	1722.3	2261.9	2934.9	4430.9	7859.0	14485.8	21584.8	22401.8	22436.2	17041.5
66°	1476.5	1419.5	1800.2	2501.7	3525.5	6255.1	13459.1	21535.4	22701.6	22664.1	16996.6
67.5°	1122.7	1173.7	1437.5	1923.1	2612.7	4447.4	11111.7	20577.6	22473.7	22356.8	16305.6
70°	803.4	824.4	1023.8	1371.5	1779.3	2440.3	7100.5	17091.0	20426.2	20268.8	14205.5
72.5°	518.6	541.1	725.5	992.3	1286.1	1332.6	3975.2	12348.3	15747.9	15725.5	10698.0
75°	370.2	391.2	479.7	710.5	966.8	824.4	1914.2	8322.2	10011.5	9944.0	6617.9
77.5°	268.3	278.8	320.8	464.7	691.0	590.6	887.4	4444.4	4984.0	5219.3	2924.4
80°	154.4	163.4	223.3	283.3	467.7	403.2	424.2	1783.7	1839.2	1750.8	914.4
82.5°	76.4	86.9	133.4	193.4	292.3	271.3	194.9	536.6	566.6	551.6	230.8
85°	18.0	22.5	74.9	127.4	142.4	121.4	94.4	157.4	194.9	190.4	88.4
87.5°	1.5	3.0	27.0	22.5	24.0	40.5	33.0	40.5	63.0	58.5	31.5
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°	2216.9	2216.9	2216.9	2216.9	2216.9	2216.9	2216.9	2216.9	2216.9	2216.9	2216.9
2.5°	2236.4	2207.9	2125.5	2044.6	1977.1	1906.7	1842.2	1804.7	1789.7	1773.3	1780.7
5°	2267.9	2199.0	2032.6	1888.7	1747.8	1627.9	1531.9	1470.5	1440.5	1436.0	1428.5
7.5°	2309.9	2191.5	1933.6	1708.8	1524.4	1391.0	1281.6	1193.2	1166.2	1142.2	1122.7
10°	2360.8	2178.0	1810.7	1519.9	1323.6	1155.7	1011.8	906.9	852.9	837.9	848.4
12.5°	2414.8	2152.5	1681.8	1346.1	1119.7	905.4	772.0	719.5	704.5	698.5	700.0
15°	2468.8	2121.0	1546.9	1178.2	891.9	722.5	661.0	647.5	641.5	638.6	635.6
17.5°	2518.2	2070.0	1395.5	1014.8	722.5	617.6	595.1	583.1	571.1	566.6	559.1
20°	2576.7	2011.6	1259.1	831.9	611.6	559.1	532.1	509.6	491.7	479.7	478.2
22.5°	2632.2	1936.6	1116.7	689.5	557.6	502.1	458.7	434.7	413.7	398.7	403.2
25°	2662.1	1845.2	989.3	601.1	508.1	445.2	397.2	367.2	344.8	337.3	335.8
27.5°	2662.1	1732.8	864.9	550.1	463.2	394.2	344.8	316.3	301.3	290.8	292.3
30°	2641.1	1608.4	749.5	511.1	424.2	349.3	302.8	277.3	265.3	257.8	256.3
32.5°	2624.7	1490.0	650.5	473.7	383.7	310.3	269.8	250.3	238.3	230.8	230.8
35°	2650.1	1388.0	574.1	436.2	346.3	280.3	244.3	226.3	214.3	208.4	206.9
37.5°	2717.6	1295.1	515.6	395.7	311.8	254.8	226.3	205.4	193.4	185.9	182.9
40°	2884.0	1242.6	472.2	358.2	278.8	233.8	205.4	185.9	170.9	163.4	161.9
42.5°	3150.8	1244.1	430.2	323.8	253.3	215.8	187.4	164.9	148.4	140.9	139.4
45°	3552.5	1301.1	397.2	290.8	230.8	196.4	167.9	143.9	128.9	121.4	121.4
47.5°	4033.7	1412.0	368.7	262.3	209.9	178.4	148.4	124.4	109.4	103.4	103.4
50°	4555.3	1555.9	340.3	232.3	191.9	158.9	127.4	107.9	95.9	91.4	91.4
52.5°	5087.4	1729.8	311.8	208.4	172.4	137.9	109.4	95.9	85.4	82.4	80.9
55°	5785.9	1951.6	281.8	182.9	151.4	118.4	97.4	83.9	71.9	67.5	66.0
57.5°	6860.7	2285.9	248.8	160.4	124.4	98.9	83.9	70.5	57.0	49.5	48.0
60°	8157.3	2693.6	214.3	140.9	100.4	80.9	67.5	54.0	42.0	33.0	31.5
62.5°	9371.4	2952.9	181.4	118.4	79.4	61.5	48.0	40.5	30.0	21.0	19.5
65°	9908.0	2866.0	149.9	95.9	63.0	43.5	31.5	28.5	18.0	9.0	7.5
66°	9729.7	2737.1	137.9	86.9	57.0	37.5	27.0	24.0	13.5	4.5	4.5
67.5°	9203.5	2432.8	119.9	74.9	49.5	30.0	21.0	18.0	7.5	1.5	0.0
70°	7886.0	1968.1	94.4	55.5	36.0	21.0	12.0	9.0	4.5	0.0	0.0
72.5°	6057.2	1466.0	74.9	42.0	25.5	12.0	6.0	3.0	4.5	0.0	0.0
75°	3711.4	837.9	58.5	31.5	16.5	7.5	4.5	0.0	4.5	1.5	0.0
77.5°	1647.3	376.2	39.0	21.0	12.0	6.0	3.0	0.0	3.0	1.5	0.0
80°	416.7	122.9	22.5	15.0	9.0	4.5	1.5	0.0	3.0	3.0	1.5
82.5°	113.9	45.0	16.5	12.0	7.5	4.5	1.5	0.0	3.0	3.0	3.0
85°	45.0	21.0	15.0	12.0	9.0	4.5	1.5	0.0	3.0	3.0	3.0
87.5°	21.0	15.0	15.0	13.5	10.5	4.5	1.5	0.0	3.0	1.5	3.0
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)