

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: P321730

Luminaire Tested: **GLEON-SA6C-827-U-T3R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321730  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA6C-827-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23918 lumens  
Efficiency: N/A  
Efficacy: 71.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4

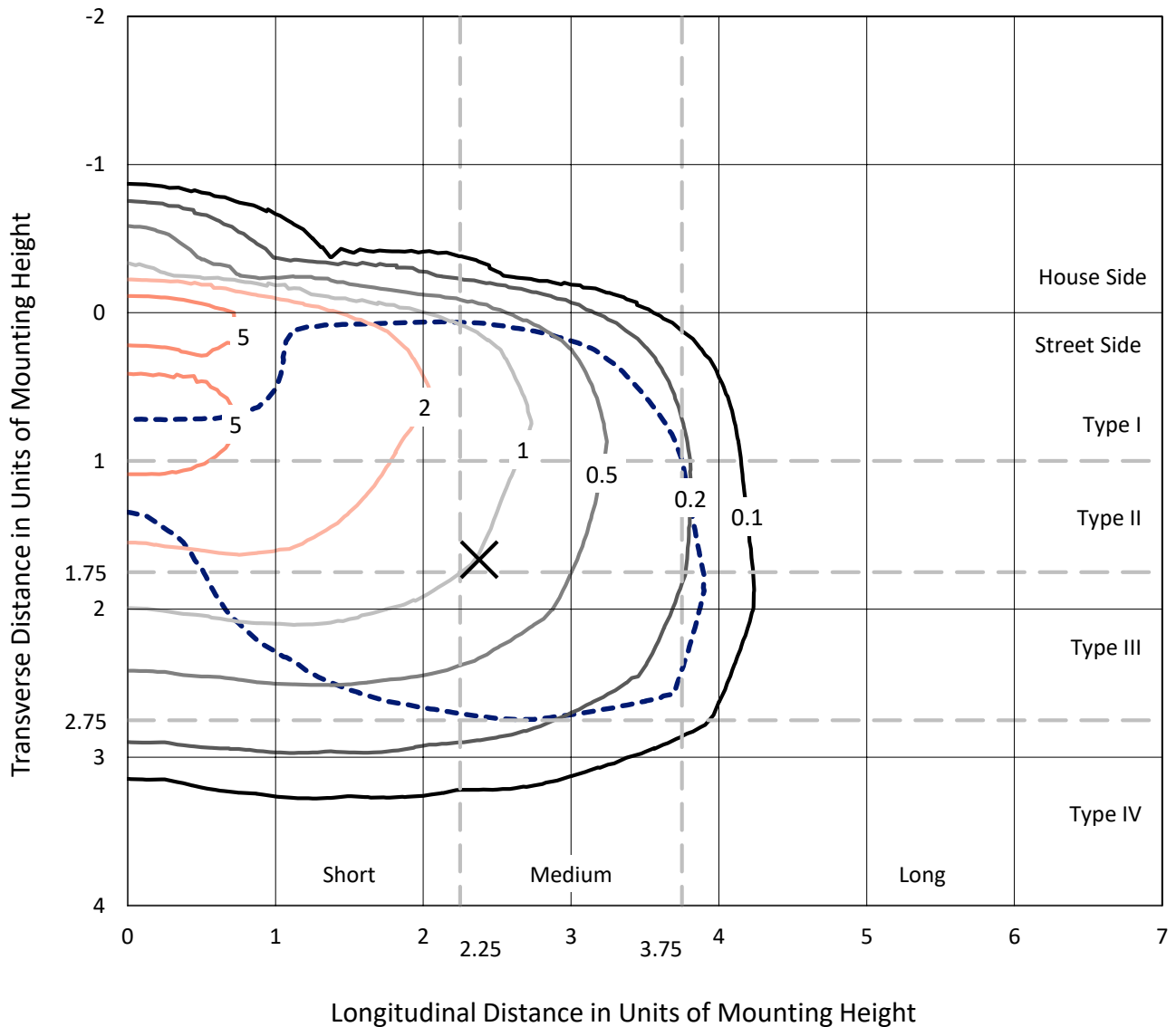
Input Watts (W): 333  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

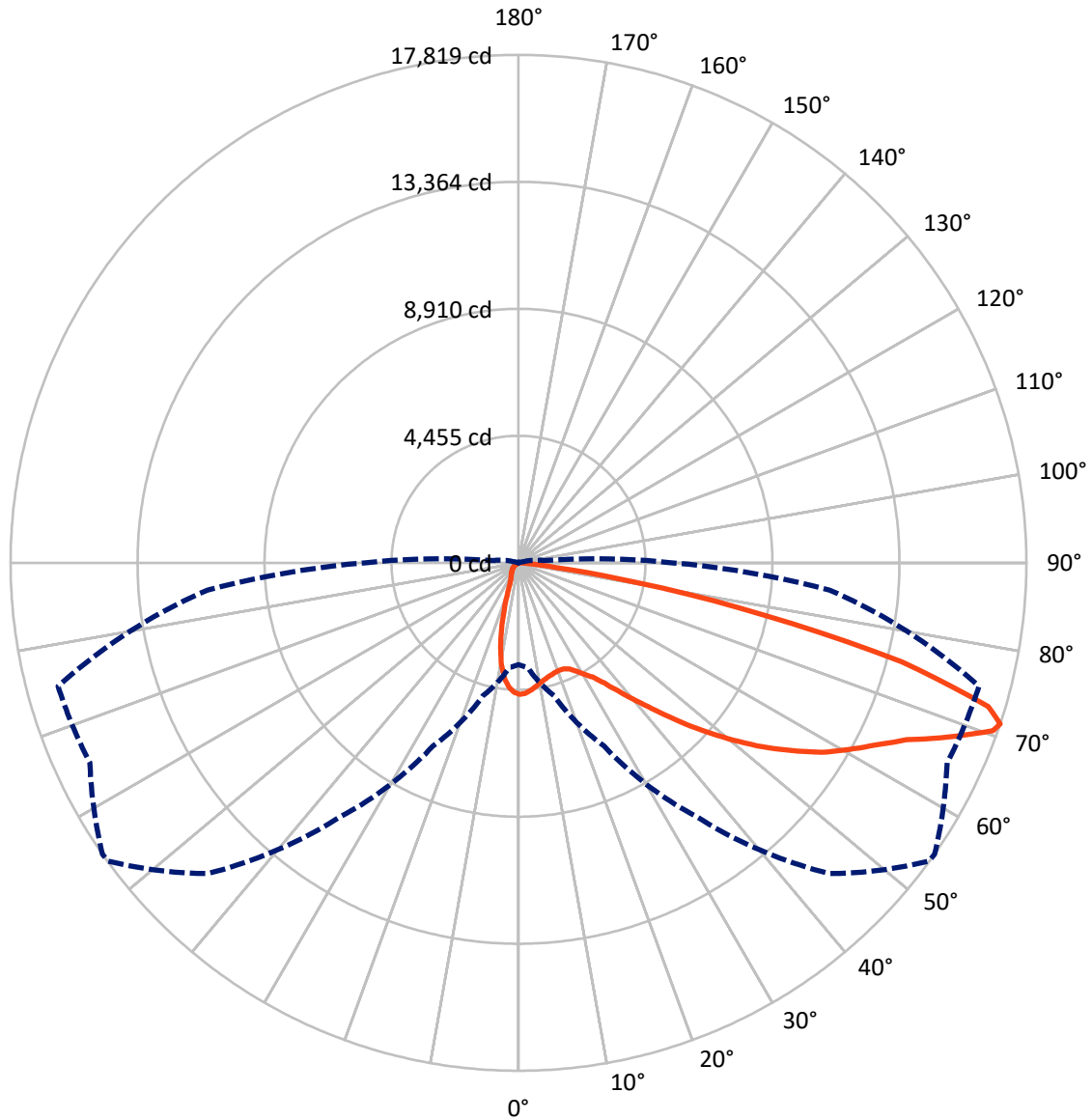
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1893.7	0.0	1893.7
	% Fixture	7.9	0.0	7.9
<b>Street Side</b>	Lumens	22024.4	0.0	22024.4
	% Fixture	92.1	0.0	92.1
<b>Total</b>	Lumens	23918.0	0.0	23918.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	393.3	1.6
10°-20°	887.9	3.7
20°-30°	1426.9	6.0
30°-40°	2424.3	10.1
40°-50°	3762.8	15.7
50°-60°	5059.0	21.2
60°-70°	6188.9	25.9
70°-80°	3618.5	15.1
80°-90°	156.4	0.7
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°	23918.0	100.0
0°-180°	23918.0	100.0

**Coefficient of Utilization**

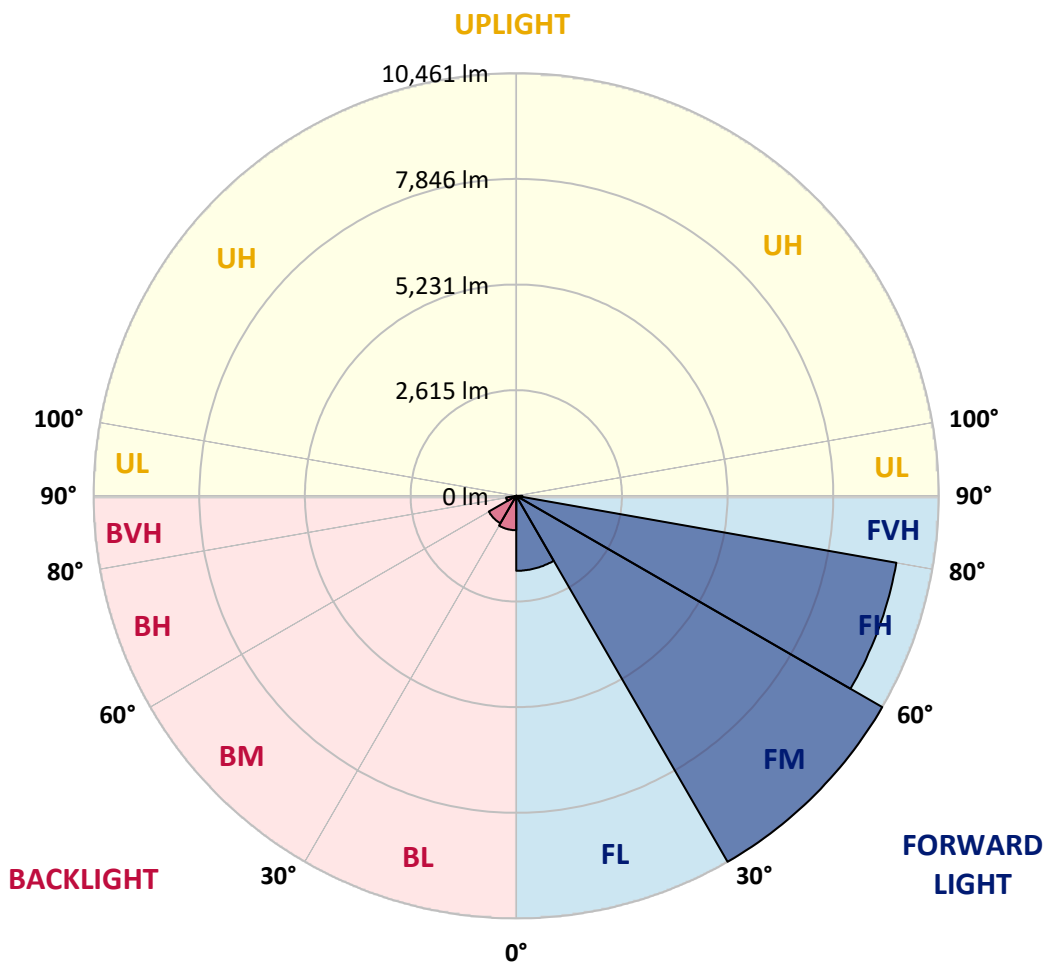


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1855.7	7.8			
FM (30°-60°)	10461.0	43.7			
FH (60°-80°)	9553.7	39.9			G4/12000
FVH (80°-90°)	153.9	0.6			G2/225
BL (0°-30°)	852.3	3.6	B2/1000		
BM (30°-60°)	785.1	3.3	B1/1000		
BH (60°-80°)	253.7	1.1	B1/500		G1/500
BVH (80°-90°)	2.5	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-G4**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4612.7	4612.7	4612.7	4612.7	4612.7	4612.7	4612.7	4612.7	4612.7	4612.7	4612.7
2.5°	4477.4	4482.7	4502.1	4510.6	4531.1	4565.4	4582.6	4583.7	4611.6	4622.3	4630.9
5°	4160.5	4192.8	4225.0	4259.3	4321.6	4404.3	4485.9	4493.5	4583.7	4650.3	4685.7
7.5°	3887.7	3916.7	3955.4	4010.2	4098.2	4228.2	4364.6	4380.7	4551.5	4702.9	4782.4
10°	3607.4	3631.1	3686.9	3767.5	3888.8	4062.8	4246.5	4273.3	4522.5	4773.8	4913.4
12.5°	3307.8	3321.8	3389.4	3505.4	3683.7	3904.9	4146.6	4182.0	4504.2	4855.4	5068.0
15°	3080.1	3086.6	3151.0	3271.3	3475.3	3763.2	4069.2	4112.2	4508.5	4953.1	5236.6
17.5°	3022.1	3025.4	3059.7	3142.4	3322.8	3636.4	4008.0	4060.7	4521.4	5048.7	5406.3
20°	3257.3	3234.8	3199.3	3186.4	3263.8	3560.2	3971.5	4030.6	4538.6	5133.5	5558.8
22.5°	3902.8	3836.2	3689.1	3492.5	3373.3	3565.6	3981.2	4040.2	4593.3	5237.7	5735.0
25°	4860.8	4768.4	4518.2	4131.5	3759.9	3720.2	4061.7	4121.9	4699.7	5362.3	5903.6
27.5°	5950.8	5859.5	5553.5	5001.4	4367.8	4026.3	4246.5	4302.3	4857.5	5472.9	6032.5
30°	6994.7	6968.9	6608.1	5980.9	5132.5	4522.5	4484.9	4532.1	4974.6	5539.5	6134.5
32.5°	7879.7	7838.9	7548.9	6938.9	6007.8	5118.5	4765.2	4779.1	5062.7	5625.4	6267.6
35°	8700.2	8649.7	8395.2	7818.5	6905.6	5846.7	5196.9	5176.5	5254.9	5798.3	6461.0
37.5°	9416.5	9462.7	9180.2	8631.4	7711.1	6603.8	5779.0	5717.8	5555.6	6079.7	6741.3
40°	10015.8	10015.8	9868.6	9411.1	8581.0	7386.7	6437.3	6356.8	6007.8	6513.6	7096.7
42.5°	10231.6	10277.8	10332.6	10073.8	9359.6	8200.8	7170.9	7087.1	6644.6	7129.0	7545.7
45°	10244.5	10317.6	10597.9	10596.8	10063.0	9009.5	7997.8	7958.1	7460.8	7919.4	8102.0
47.5°	10063.0	10154.3	10616.1	10878.2	10620.4	9762.3	8902.1	8852.7	8419.9	8888.1	8684.1
50°	9782.7	9883.7	10420.7	10988.8	10999.5	10417.4	9854.7	9780.6	9475.6	9995.4	9285.5
52.5°	9281.2	9476.7	10245.6	11014.6	11248.7	10983.4	10761.1	10728.9	10656.9	11061.8	9764.5
55°	8208.3	8425.2	9806.4	11023.2	11479.6	11485.0	11610.6	11619.2	11764.2	12058.5	10121.0
57.5°	7701.4	7823.8	9039.5	11064.0	11822.2	12054.2	12476.2	12542.8	12767.3	13004.6	10528.1
60°	7382.4	7527.4	8661.5	11008.1	12360.2	12800.6	13278.5	13301.0	13541.6	13980.9	11079.0
62.5°	7127.9	7270.7	8423.1	10793.3	12964.9	13698.4	14062.5	14064.6	14245.0	15144.0	11705.1
65°	6499.6	6619.9	7940.9	10551.7	13364.4	14586.6	14973.2	14959.2	15106.4	16370.4	12432.2
67.5°	5591.1	5683.4	6956.1	9635.6	13214.0	15394.2	16347.9	16301.7	16123.4	17430.4	12717.9
70°	4322.7	4356.0	5482.6	8030.0	11805.0	15704.6	17676.4	17652.7	16747.4	17240.3	11670.8
71°	3573.1	3682.6	4831.8	7087.1	10861.0	15417.8	17805.2	17819.2	16590.6	16722.7	10950.1
72.5°	2074.9	2168.3	3502.2	5442.8	9221.0	14221.4	17137.2	17238.2	15858.1	15210.5	9353.1
75°	444.6	475.8	1298.4	2634.4	5072.3	9967.5	13526.6	13886.3	12925.1	10347.6	5637.2
77.5°	309.3	334.0	556.3	1195.3	1676.5	4925.2	8402.7	8808.6	7721.8	3888.8	1804.3
80°	244.9	272.8	433.9	590.7	453.2	1588.4	3936.1	4184.2	2575.4	867.8	303.9
82.5°	136.4	162.2	338.3	319.0	174.0	301.8	1101.9	1245.8	515.5	175.1	72.0
85°	39.7	48.3	218.0	232.0	74.1	58.0	187.9	233.1	97.7	46.2	32.2
87.5°	0.0	0.0	105.2	89.1	21.5	8.6	17.2	19.3	19.3	19.3	21.5
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°	4612.7	4612.7	4612.7	4612.7	4612.7	4612.7	4612.7	4612.7	4612.7	4612.7	4612.7
2.5°	4630.9	4638.4	4611.6	4576.2	4538.6	4492.4	4444.1	4406.5	4405.4	4387.1	4368.9
5°	4687.8	4683.6	4609.5	4496.7	4363.5	4225.0	4092.9	3943.6	3894.2	3833.0	3812.6
7.5°	4793.1	4763.0	4606.2	4359.2	4067.1	3777.1	3477.5	3175.7	3046.8	2930.8	2910.4
10°	4925.2	4868.3	4585.8	4153.0	3617.1	3082.3	2630.1	2219.9	2039.5	1900.9	1894.5
12.5°	5062.7	4975.7	4528.9	3841.6	3027.5	2275.7	1754.9	1351.0	1200.7	1104.0	1112.6
15°	5206.6	5076.6	4406.5	3421.6	2356.3	1544.4	1078.3	840.9	780.8	756.1	762.5
17.5°	5353.7	5146.4	4235.7	2915.8	1693.6	996.6	746.4	679.8	679.8	685.2	687.3
20°	5481.5	5184.0	3984.4	2348.8	1148.1	726.0	653.0	643.3	648.7	657.3	658.3
22.5°	5608.2	5186.2	3656.8	1774.2	803.3	635.8	621.8	617.5	620.8	630.4	631.5
25°	5711.3	5160.4	3246.6	1261.9	641.2	599.3	592.8	590.7	592.8	604.6	604.6
27.5°	5753.2	5067.0	2746.1	887.1	574.6	558.5	556.3	558.5	561.7	570.3	571.3
30°	5757.5	4903.7	2200.6	642.2	520.9	503.7	508.0	515.5	512.3	510.1	512.3
32.5°	5768.3	4714.7	1668.9	528.4	475.8	448.9	443.5	443.5	430.7	423.1	418.8
35°	5803.7	4492.4	1210.4	474.7	429.6	398.4	378.0	354.4	329.7	316.8	313.6
37.5°	5859.5	4259.3	866.7	439.3	388.8	353.3	314.7	272.8	237.3	227.7	227.7
40°	5961.6	4018.8	641.2	411.3	356.6	312.5	254.5	199.8	167.5	162.2	162.2
42.5°	6122.7	3765.3	511.2	386.6	328.6	270.6	194.4	145.0	121.4	118.1	117.1
45°	6290.2	3486.1	446.8	363.0	298.6	222.3	143.9	107.4	93.4	90.2	90.2
47.5°	6457.7	3188.6	415.6	340.4	269.6	172.9	107.4	84.8	78.4	78.4	79.5
50°	6599.5	2878.2	393.1	315.7	232.0	131.0	84.8	72.0	69.8	74.1	75.2
52.5°	6634.9	2573.2	365.1	284.6	185.8	99.9	69.8	63.4	63.4	63.4	63.4
55°	6613.5	2336.9	328.6	245.9	137.5	79.5	60.1	55.8	54.8	54.8	54.8
57.5°	6686.5	2197.3	263.1	191.2	98.8	64.4	52.6	49.4	47.3	46.2	46.2
60°	6833.6	2106.0	187.9	137.5	74.1	53.7	45.1	41.9	38.7	36.5	36.5
62.5°	7029.1	2026.6	139.6	102.0	56.9	43.0	37.6	34.4	30.1	27.9	27.9
65°	7179.4	1884.8	106.3	76.3	43.0	34.4	29.0	27.9	21.5	19.3	18.3
67.5°	6949.6	1573.4	85.9	55.8	32.2	26.8	22.6	21.5	12.9	10.7	10.7
70°	5960.5	1095.4	68.7	40.8	23.6	21.5	18.3	14.0	9.7	8.6	8.6
71°	5405.3	915.0	62.3	34.4	20.4	20.4	17.2	11.8	8.6	7.5	7.5
72.5°	4490.2	649.7	52.6	26.8	18.3	21.5	18.3	10.7	8.6	7.5	6.4
75°	2606.5	271.7	36.5	18.3	14.0	25.8	23.6	9.7	6.4	5.4	5.4
77.5°	784.0	99.9	20.4	11.8	10.7	22.6	26.8	8.6	3.2	1.1	1.1
80°	142.8	43.0	12.9	7.5	7.5	14.0	20.4	4.3	0.0	0.0	0.0
82.5°	50.5	21.5	7.5	4.3	3.2	6.4	9.7	0.0	0.0	0.0	0.0
85°	29.0	15.0	4.3	2.1	0.0	1.1	2.1	0.0	0.0	0.0	0.0
87.5°	19.3	4.3	0.0	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)