

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: P456384

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

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456384  
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-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: 26910 lumens  
Efficiency: N/A  
Efficacy: 71.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G4

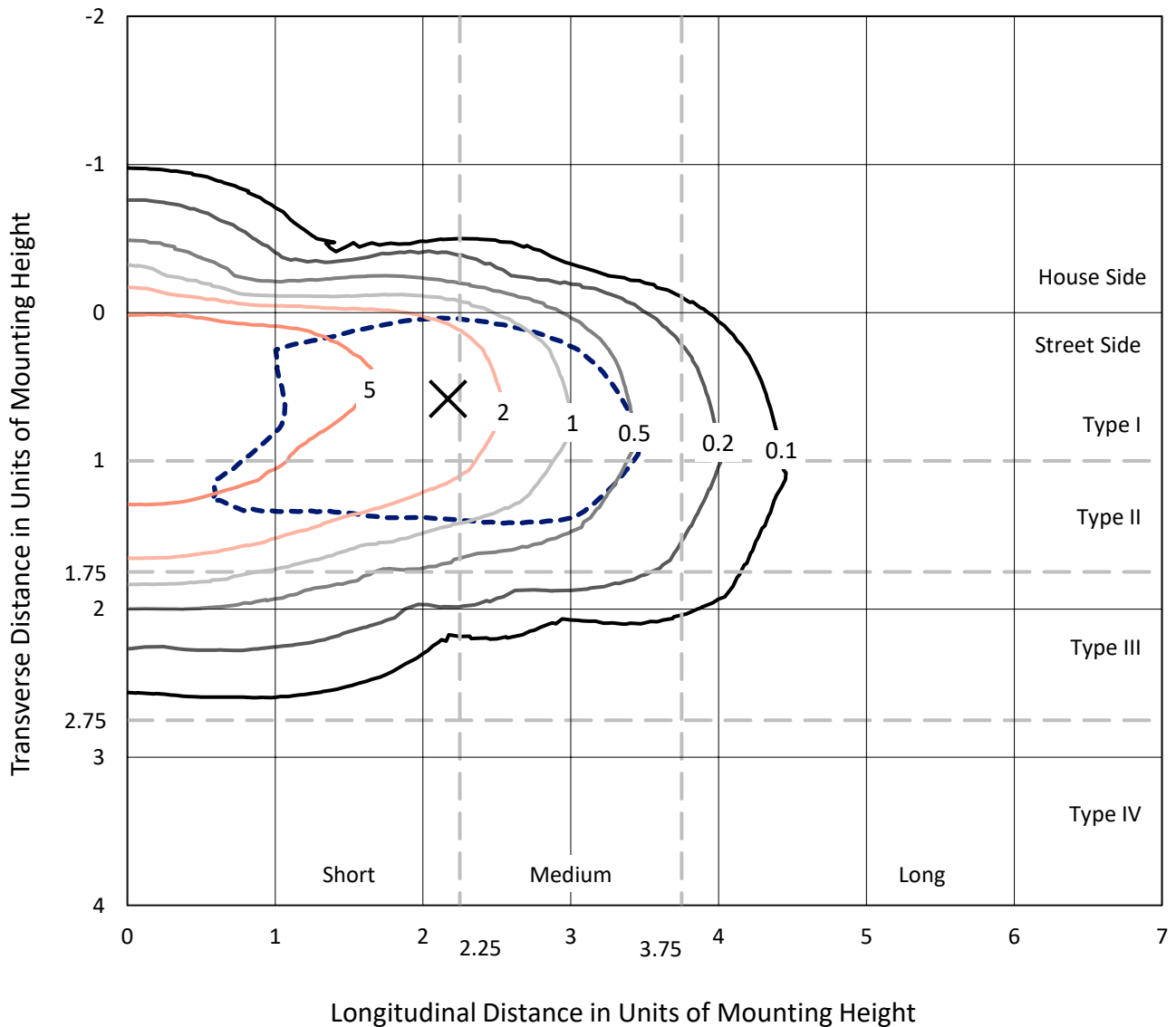
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P456384  
 CATALOG NUMBER: GALN-SA7C-827-U-T2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

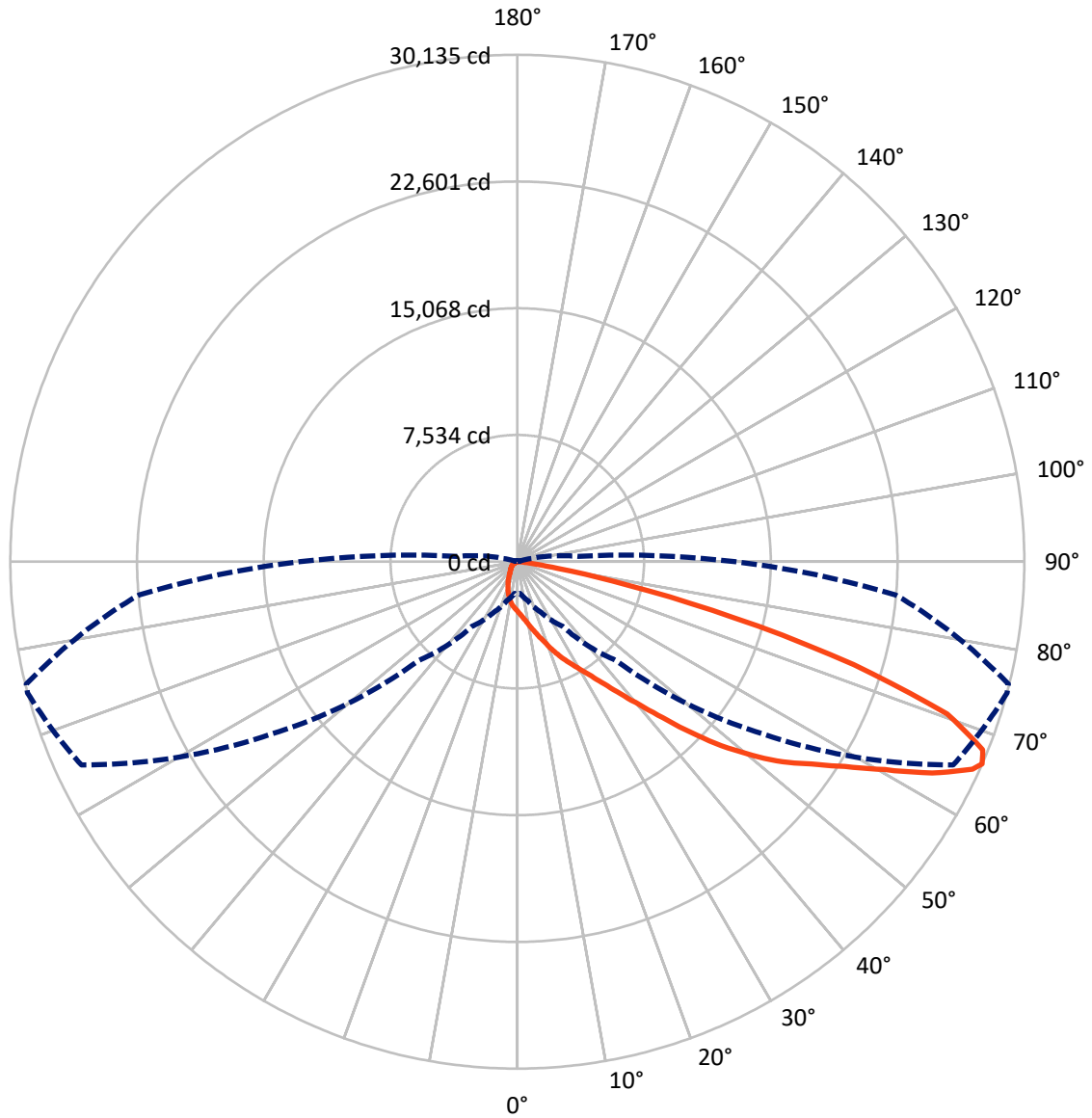
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc  
 Type II - Short - N/A

REPORT NUMBER: P456384  
CATALOG NUMBER: GALN-SA7C-827-U-T2-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P456384

CATALOG NUMBER: GALN-SA7C-827-U-T2-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1661.3	0.0	1661.3
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	25248.7	0.0	25248.7
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	26910.0	0.0	26910.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	283.8	1.1
10°-20°	835.4	3.1
20°-30°	1442.5	5.4
30°-40°	2602.0	9.7
40°-50°	4700.5	17.5
50°-60°	7328.2	27.2
60°-70°	6961.5	25.9
70°-80°	2609.0	9.7
80°-90°	147.2	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°	26910.0	100.0
0°-180°	26910.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P456384

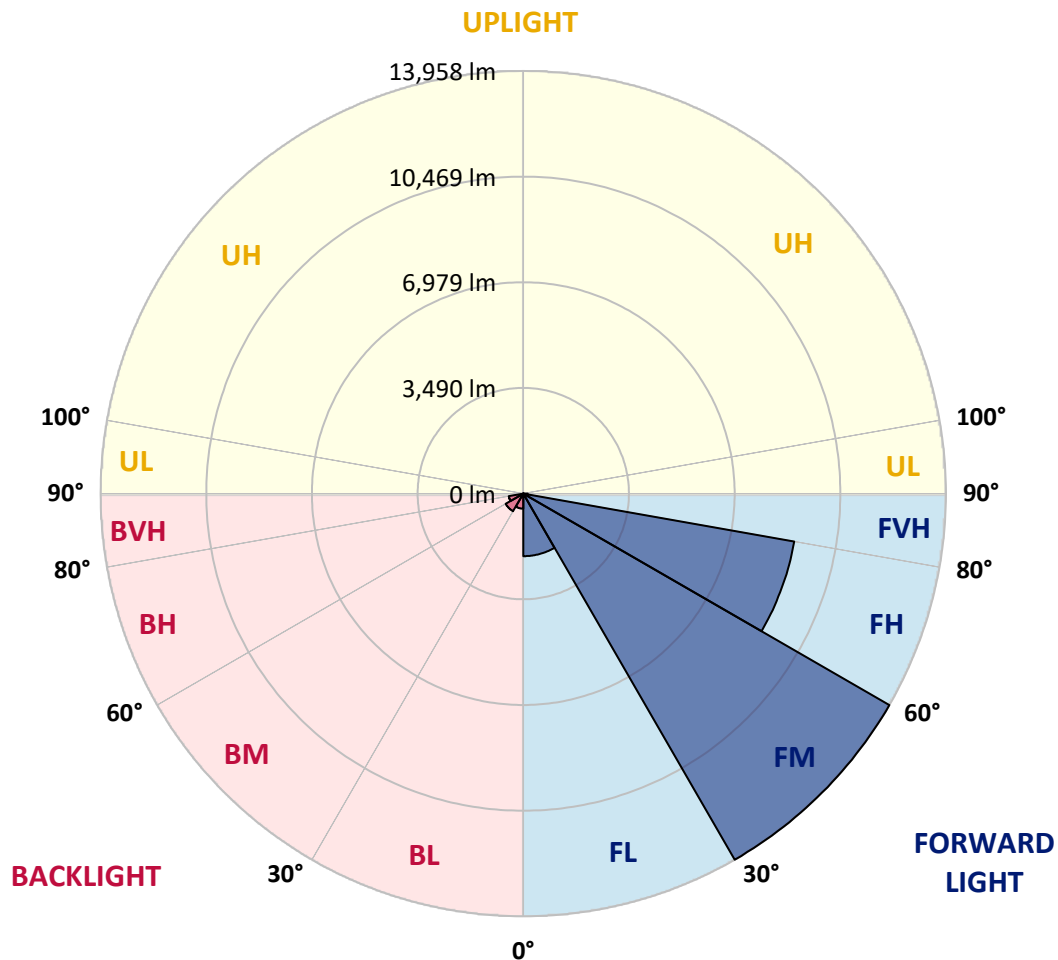
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2065.6	7.7			
FM (30°-60°)	13958.2	51.9			
FH (60°-80°)	9085.3	33.8			G4/12000
FVH (80°-90°)	139.6	0.5			G2/225
BL (0°-30°)	496.1	1.8	B1/500		
BM (30°-60°)	672.5	2.5	B1/1000		
BH (60°-80°)	485.1	1.8	B1/500		G1/500
BVH (80°-90°)	7.6	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-G4**

Type II Short





REPORT NUMBER: P456384

CATALOG NUMBER: GALN-SA7C-827-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2942.9	2942.9	2942.9	2942.9	2942.9	2942.9	2942.9	2942.9	2942.9	2942.9	2942.9
2.5°	3515.9	3472.2	3486.1	3466.2	3420.4	3352.8	3293.1	3207.5	3122.0	3108.0	3012.5
5°	3979.5	3967.6	3951.7	3894.0	3862.1	3758.7	3635.3	3488.1	3311.0	3279.1	3106.0
7.5°	4295.9	4290.0	4297.9	4268.1	4240.2	4146.7	4015.4	3814.4	3539.8	3521.9	3233.4
10°	4399.4	4415.3	4445.2	4492.9	4536.7	4506.8	4407.3	4156.6	3836.3	3784.5	3378.6
12.5°	4339.7	4357.6	4429.2	4556.6	4697.9	4779.4	4739.6	4556.6	4150.7	4108.9	3541.8
15°	4186.5	4208.4	4309.8	4506.8	4759.5	4990.4	5089.8	4958.5	4516.8	4449.1	3738.8
17.5°	3959.6	3991.5	4136.7	4397.4	4743.6	5141.6	5422.1	5378.4	4906.8	4843.1	3953.7
20°	3788.5	3812.4	3935.8	4234.2	4676.0	5225.1	5738.5	5861.9	5388.3	5278.9	4206.4
22.5°	3901.9	3909.9	3951.7	4130.8	4554.6	5247.0	6017.1	6365.3	5899.7	5802.2	4469.0
25°	4457.1	4377.5	4335.7	4295.9	4528.7	5227.1	6269.8	6890.6	6409.1	6305.6	4729.7
27.5°	5332.6	5296.8	5085.9	4803.3	4749.6	5253.0	6436.9	7388.0	6888.6	6777.2	4984.4
30°	6285.7	6224.0	6094.7	5680.8	5264.9	5436.1	6558.3	7871.5	7455.7	7308.4	5217.2
32.5°	7161.2	7201.0	7008.0	6582.2	6100.6	5826.1	6715.5	8398.8	8106.3	7923.3	5487.8
35°	8181.9	8261.5	7965.1	7557.2	6994.1	6530.4	7021.9	8993.8	8932.1	8701.3	5905.6
37.5°	9218.6	9266.4	9085.3	8512.2	8004.9	7425.8	7598.9	9728.0	9948.9	9751.9	6405.1
40°	10090.1	10155.8	10022.5	9513.1	8971.9	8462.5	8436.6	10527.9	11158.6	10955.7	7149.3
42.5°	10756.7	10806.5	10810.4	10450.3	9962.8	9732.0	9505.1	11548.6	12674.9	12440.1	8012.8
45°	11598.4	11670.0	11628.2	11383.5	11019.4	10977.6	10860.2	12782.3	14489.5	14193.1	9133.1
47.5°	12899.7	12947.5	12844.0	12555.5	12185.4	12251.0	12181.4	14165.2	16340.0	16085.3	10293.1
50°	13803.1	13882.6	14029.9	14145.3	13876.7	13633.9	13427.0	15456.6	18097.0	17868.2	11479.0
52.5°	13793.1	13924.4	14390.0	14971.1	15558.0	15484.4	14889.5	16883.2	19774.4	19491.8	12593.3
55°	12863.9	13118.6	13803.1	14833.8	16459.4	17269.2	16998.6	18534.7	21222.9	21031.9	13884.6
57.5°	10945.7	11100.9	12052.1	13492.7	15956.0	18108.9	19442.1	20773.2	22960.0	22870.5	15890.3
60°	7362.2	7431.8	8655.5	10436.4	13584.2	17271.2	21232.9	23481.3	25099.0	25055.2	18232.3
62.5°	4218.3	4248.2	5135.6	6637.9	9666.3	14636.8	21384.1	26822.1	27663.8	27687.7	20942.4
65°	2270.3	2286.2	3002.6	3896.0	5881.8	10432.4	19229.2	28652.7	29737.2	29782.9	22621.7
66°	1959.9	1884.3	2389.7	3320.9	4679.9	8303.3	17866.2	28587.1	30135.1	30085.4	22562.0
67.5°	1490.3	1558.0	1908.2	2552.9	3468.2	5903.7	14750.2	27315.6	29832.7	29677.5	21644.8
70°	1066.5	1094.4	1359.0	1820.6	2361.9	3239.4	9425.6	22687.4	27114.6	26905.7	18857.1
72.5°	688.5	718.3	963.1	1317.2	1707.2	1768.9	5276.9	16391.8	20904.6	20874.7	14201.0
75°	491.5	519.3	636.7	943.2	1283.4	1094.4	2540.9	11047.2	13289.7	13200.2	8784.8
77.5°	356.2	370.1	425.8	616.8	917.3	784.0	1177.9	5899.7	6616.0	6928.4	3882.0
80°	204.9	216.9	296.5	376.1	620.8	535.2	563.1	2367.8	2441.5	2324.1	1213.8
82.5°	101.5	115.4	177.1	256.7	388.0	360.1	258.7	712.3	752.1	732.2	306.4
85°	23.9	29.8	99.5	169.1	189.0	161.2	125.4	208.9	258.7	252.7	117.4
87.5°	2.0	4.0	35.8	29.8	31.8	53.7	43.8	53.7	83.6	77.6	41.8
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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 CATALOG NUMBER: GALN-SA7C-827-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2942.9	2942.9	2942.9	2942.9	2942.9	2942.9	2942.9	2942.9	2942.9	2942.9	2942.9
2.5°	2968.7	2930.9	2821.5	2714.1	2624.5	2531.0	2445.4	2395.7	2375.8	2353.9	2363.9
5°	3010.5	2919.0	2698.1	2507.1	2320.1	2160.9	2033.5	1952.0	1912.2	1906.2	1896.3
7.5°	3066.2	2909.0	2566.8	2268.3	2023.6	1846.5	1701.3	1583.9	1548.0	1516.2	1490.3
10°	3133.9	2891.1	2403.6	2017.6	1757.0	1534.1	1343.1	1203.8	1132.2	1112.3	1126.2
12.5°	3205.5	2857.3	2232.5	1786.8	1486.4	1201.8	1024.7	955.1	935.2	927.2	929.2
15°	3277.2	2815.5	2053.4	1564.0	1183.9	959.1	877.5	859.6	851.6	847.6	843.7
17.5°	3342.8	2747.9	1852.5	1347.1	959.1	819.8	789.9	774.0	758.1	752.1	742.2
20°	3420.4	2670.3	1671.4	1104.3	811.8	742.2	706.4	676.5	652.6	636.7	634.7
22.5°	3494.0	2570.8	1482.4	915.3	740.2	666.6	608.9	577.0	549.2	529.3	535.2
25°	3533.8	2449.4	1313.3	797.9	674.5	591.0	527.3	487.5	457.6	447.7	445.7
27.5°	3533.8	2300.2	1148.1	730.2	614.8	523.3	457.6	419.8	399.9	386.0	388.0
30°	3506.0	2135.0	994.9	678.5	563.1	463.6	401.9	368.1	352.2	342.2	340.3
32.5°	3484.1	1977.8	863.6	628.8	509.4	411.9	358.2	332.3	316.4	306.4	306.4
35°	3517.9	1842.5	762.1	579.0	459.6	372.1	324.3	300.5	284.5	276.6	274.6
37.5°	3607.5	1719.2	684.5	525.3	413.9	338.3	300.5	272.6	256.7	246.7	242.8
40°	3828.3	1649.5	626.8	475.6	370.1	310.4	272.6	246.7	226.8	216.9	214.9
42.5°	4182.5	1651.5	571.1	429.8	336.3	286.5	248.7	218.9	197.0	187.0	185.0
45°	4715.8	1727.1	527.3	386.0	306.4	260.7	222.9	191.0	171.1	161.2	161.2
47.5°	5354.5	1874.4	489.5	348.2	278.6	236.8	197.0	165.2	145.3	137.3	137.3
50°	6046.9	2065.4	451.7	308.4	254.7	210.9	169.1	143.3	127.3	121.4	121.4
52.5°	6753.3	2296.2	413.9	276.6	228.8	183.1	145.3	127.3	113.4	109.4	107.4
55°	7680.5	2590.7	374.1	242.8	201.0	157.2	129.3	111.4	95.5	89.5	87.6
57.5°	9107.2	3034.4	330.3	212.9	165.2	131.3	111.4	93.5	75.6	65.7	63.7
60°	10828.3	3575.6	284.5	187.0	133.3	107.4	89.5	71.6	55.7	43.8	41.8
62.5°	12440.1	3919.9	240.8	157.2	105.5	81.6	63.7	53.7	39.8	27.9	25.9
65°	13152.4	3804.4	199.0	127.3	83.6	57.7	41.8	37.8	23.9	11.9	9.9
66°	12915.6	3633.3	183.1	115.4	75.6	49.7	35.8	31.8	17.9	6.0	6.0
67.5°	12217.2	3229.4	159.2	99.5	65.7	39.8	27.9	23.9	9.9	2.0	0.0
70°	10468.2	2612.6	125.4	73.6	47.8	27.9	15.9	11.9	6.0	0.0	0.0
72.5°	8040.7	1946.0	99.5	55.7	33.8	15.9	8.0	4.0	6.0	0.0	0.0
75°	4926.7	1112.3	77.6	41.8	21.9	9.9	6.0	0.0	6.0	2.0	0.0
77.5°	2186.8	499.4	51.7	27.9	15.9	8.0	4.0	0.0	4.0	2.0	0.0
80°	553.2	163.2	29.8	19.9	11.9	6.0	2.0	0.0	4.0	4.0	2.0
82.5°	151.2	59.7	21.9	15.9	9.9	6.0	2.0	0.0	4.0	4.0	4.0
85°	59.7	27.9	19.9	15.9	11.9	6.0	2.0	0.0	4.0	4.0	4.0
87.5°	27.9	19.9	19.9	17.9	13.9	6.0	2.0	0.0	4.0	2.0	4.0
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)