

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: P383436

Luminaire Tested: **GLEON-SA7B-735-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383436
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7B-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27291.6 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 295
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

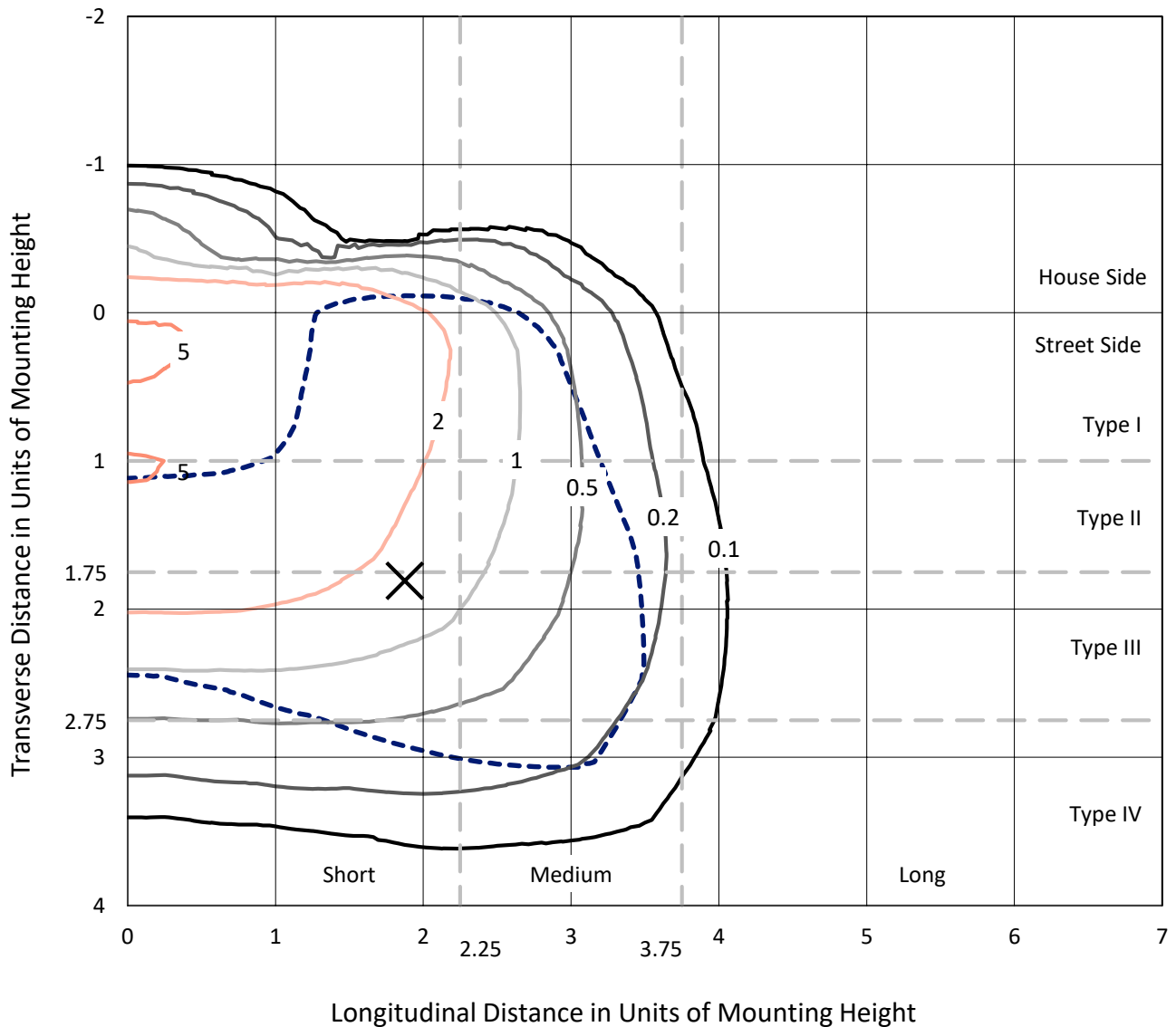




REPORT NUMBER: P383436
 CATALOG NUMBER: GLEON-SA7B-735-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

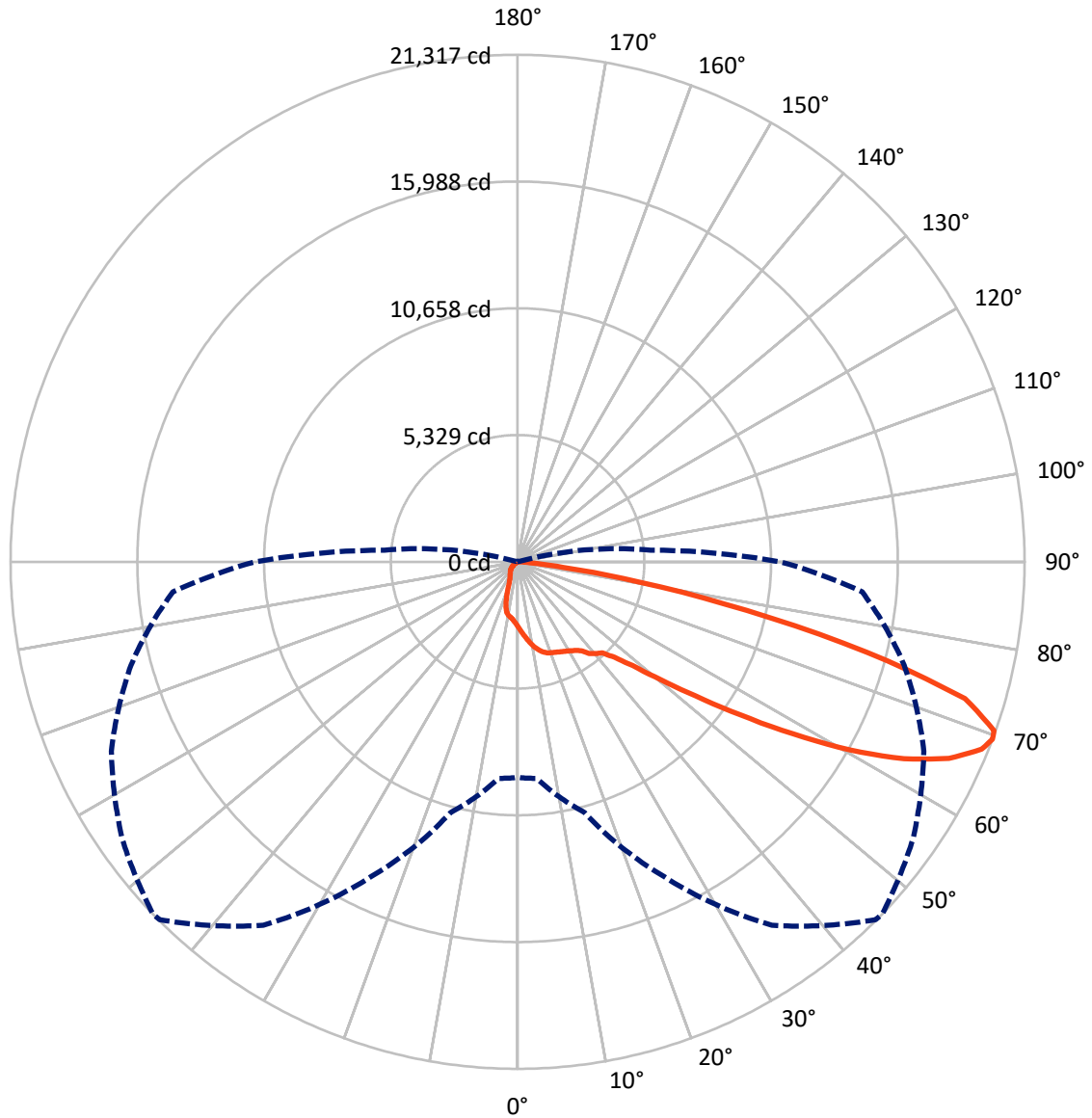
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P383436
CATALOG NUMBER: GLEON-SA7B-735-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2800.9	0.0	2800.9
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	24490.7	0.0	24490.7
	% Fixture	89.7	0.0	89.7
Total	Lumens	27291.6	0.0	27291.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.2	1.0
10°-20°	825.7	3.0
20°-30°	1298.6	4.8
30°-40°	1862.2	6.8
40°-50°	3218.6	11.8
50°-60°	6358.5	23.3
60°-70°	8886.6	32.6
70°-80°	4293.2	15.7
80°-90°	275.9	1.0
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°	27291.6	100.0
0°-180°	27291.6	100.0

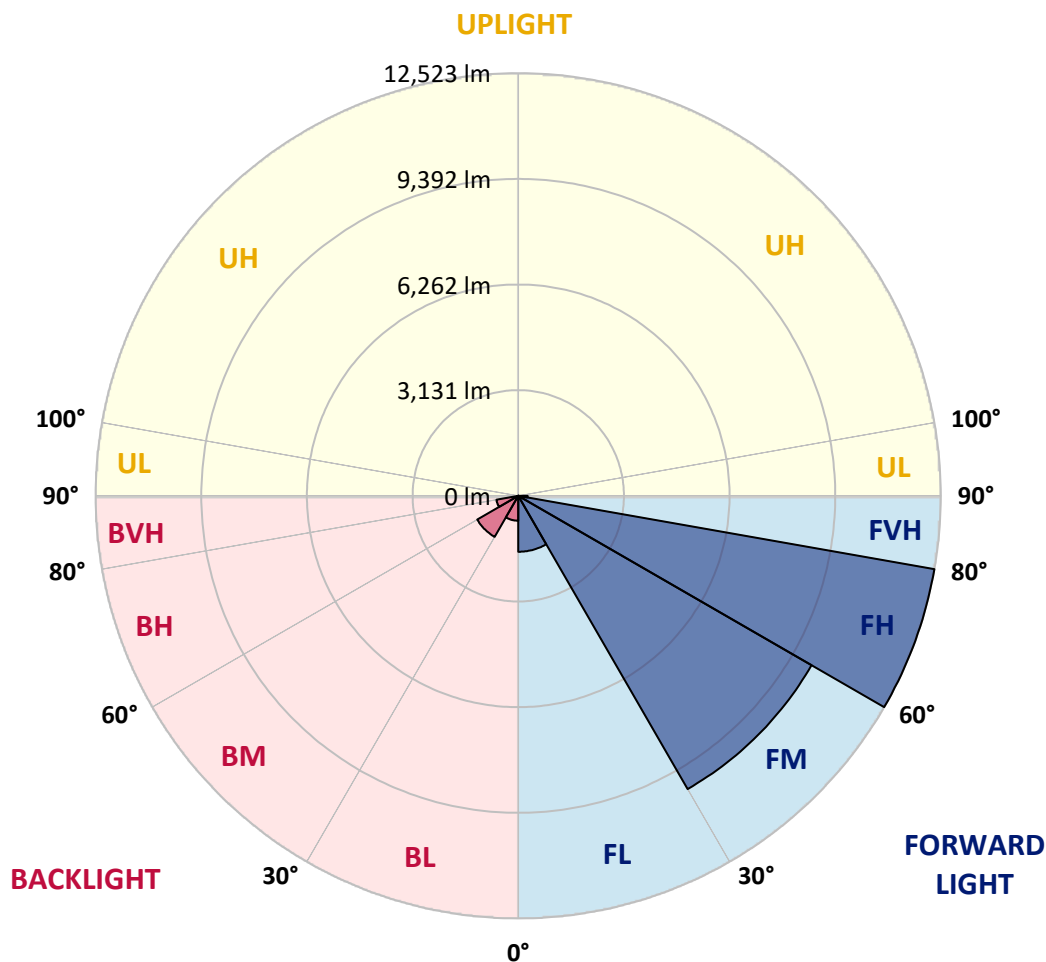


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1658.3	6.1			
FM (30°-60°)	10035.7	36.8			
FH (60°-80°)	12523.1	45.9			G5
FVH (80°-90°)	273.6	1.0			G3/500
BL (0°-30°)	738.2	2.7	B2/1000		
BM (30°-60°)	1403.6	5.1	B2/2500		
BH (60°-80°)	656.8	2.4	B2/1000		G2/1000
BVH (80°-90°)	2.3	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-G5
 Type IV Short





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CATALOG NUMBER: GLEON-SA7B-735-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2734.5	2734.5	2734.5	2734.5	2734.5	2734.5	2734.5	2734.5	2734.5	2734.5	2734.5
2.5°	3037.8	3034.0	3016.0	3008.3	2964.8	2939.2	2929.0	2897.0	2851.0	2804.9	2753.7
5°	3383.3	3382.0	3348.7	3316.8	3234.8	3158.0	3144.0	3069.7	2966.1	2868.9	2771.6
7.5°	3736.4	3719.8	3686.5	3625.1	3506.1	3383.3	3371.7	3266.8	3119.7	2978.9	2839.5
10°	4035.8	4025.6	3982.1	3888.7	3749.2	3609.7	3595.7	3466.5	3300.1	3127.4	2949.5
12.5°	4268.7	4261.1	4203.5	4087.1	3938.6	3794.0	3774.8	3659.7	3481.8	3288.5	3078.8
15°	4410.8	4407.0	4336.5	4212.5	4066.6	3941.2	3924.5	3823.4	3658.4	3456.2	3219.5
17.5°	4444.0	4445.3	4372.4	4247.0	4126.8	4037.1	4024.4	3947.6	3809.4	3608.4	3360.3
20°	4369.9	4385.2	4320.0	4211.2	4136.9	4089.6	4079.3	4033.3	3916.9	3727.5	3472.8
22.5°	4264.9	4272.6	4227.8	4154.9	4124.1	4133.1	4128.0	4102.4	4003.9	3829.9	3584.1
25°	4200.9	4200.9	4174.1	4112.7	4133.1	4188.1	4189.4	4184.3	4106.3	3955.3	3719.8
27.5°	4198.4	4190.7	4160.0	4113.9	4170.3	4254.7	4259.8	4294.3	4245.7	4107.6	3888.7
30°	4300.8	4291.8	4226.5	4166.3	4238.1	4328.9	4341.7	4417.2	4392.9	4272.6	4076.8
32.5°	4540.0	4508.0	4363.5	4264.9	4318.7	4427.5	4444.0	4564.3	4602.8	4476.1	4258.5
35°	4867.6	4766.5	4558.0	4451.8	4456.9	4570.7	4586.1	4762.7	4876.6	4662.9	4399.2
37.5°	5319.3	5269.4	4930.3	4646.3	4669.3	4842.0	4886.8	5078.7	5046.8	4765.2	4559.2
40°	6309.7	6231.7	5870.8	5191.3	4872.7	5062.1	5076.2	5178.6	5181.1	4996.8	4891.9
42.5°	7658.4	7626.4	7246.4	6180.4	5273.2	5209.3	5234.8	5407.6	5600.8	5485.7	5480.6
45°	9151.7	9135.1	8732.0	7493.4	6083.2	5691.7	5723.7	5955.3	6325.1	6350.6	6513.2
47.5°	10353.3	10345.6	10114.0	8958.5	7323.2	6509.4	6519.6	6765.3	7415.3	7736.5	7996.2
50°	11448.6	11485.7	11302.7	10543.9	9012.3	7790.3	7765.9	7929.7	8973.9	9499.7	9822.2
52.5°	12971.3	13023.8	12510.7	12023.1	10784.5	9379.5	9360.3	9531.8	10847.2	11241.4	11298.9
55°	14316.2	14226.6	13821.0	13680.2	12945.7	11342.4	11337.3	11488.3	12659.1	12826.8	12933.0
57.5°	14910.0	14875.4	15071.1	15393.6	15209.4	13662.4	13650.8	13535.7	14280.3	14298.3	14624.6
60°	15284.8	15327.1	15927.2	16921.5	17380.8	16158.8	16084.6	15382.1	15828.7	15789.0	16138.3
62.5°	15003.3	15086.5	16166.5	17823.6	19005.9	18338.0	18233.1	17073.8	17151.8	17014.9	17339.9
65°	13508.7	13638.0	15407.7	17653.4	19812.1	20041.1	19934.9	18567.0	18202.3	17977.1	17796.8
67.5°	10968.8	11045.5	12893.3	16172.9	19448.7	21057.2	21035.4	19876.1	18995.7	17814.6	16414.7
69°	9064.7	9140.2	10918.9	14614.3	18648.9	21274.7	21316.9	20295.8	18844.7	16826.8	14544.0
70°	7677.6	7758.2	9415.3	13278.5	17721.2	21173.6	21249.1	20256.1	18412.2	15682.8	12902.2
72.5°	4026.9	4096.0	5796.6	9147.9	14446.7	19442.3	19671.3	18544.0	15607.3	11389.8	7629.0
75°	1265.5	1305.2	2263.7	4781.9	9891.4	15117.2	15169.7	14546.5	11082.6	6264.9	3177.2
77.5°	482.4	470.9	753.7	1762.0	5000.7	9518.9	9840.1	9090.3	5815.8	2215.0	733.2
80°	259.7	261.0	391.5	729.4	2139.5	4891.9	5163.2	4405.7	2066.5	691.0	168.9
82.5°	112.6	117.7	220.1	386.4	982.7	1804.2	1939.9	1614.8	789.5	464.5	62.7
85°	24.3	26.8	106.2	209.9	400.5	506.8	531.1	523.3	502.8	360.9	24.3
87.5°	0.0	0.0	47.3	75.5	101.1	115.1	101.1	131.8	277.7	243.1	12.8
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°	2734.5	2734.5	2734.5	2734.5	2734.5	2734.5	2734.5	2734.5	2734.5	2734.5	2734.5
2.5°	2737.1	2714.1	2674.4	2630.9	2600.1	2568.2	2542.6	2531.0	2518.3	2509.3	2520.9
5°	2731.9	2687.1	2610.4	2536.1	2482.4	2438.9	2403.1	2389.0	2375.0	2364.7	2363.4
7.5°	2776.8	2714.1	2596.3	2487.5	2404.4	2345.5	2296.9	2276.4	2259.7	2252.1	2245.7
10°	2862.5	2781.9	2624.4	2482.4	2375.0	2275.1	2170.2	2089.6	2037.1	2012.8	2003.9
12.5°	2973.8	2872.7	2678.2	2509.3	2353.2	2161.3	1938.6	1746.7	1622.6	1581.6	1557.3
15°	3104.3	2978.9	2748.6	2543.9	2273.8	1923.3	1545.7	1294.9	1179.8	1156.8	1131.2
17.5°	3229.7	3091.5	2833.0	2550.2	2099.8	1536.8	1132.5	962.3	917.5	932.9	936.7
20°	3339.8	3202.8	2916.2	2493.9	1783.7	1152.9	876.5	834.3	851.0	880.4	885.5
22.5°	3451.1	3310.3	2993.0	2345.5	1379.4	875.3	789.5	799.7	816.4	845.8	851.0
25°	3586.7	3440.9	3064.6	2073.0	1035.2	744.8	749.8	765.2	781.8	808.7	811.3
27.5°	3742.9	3605.9	3112.0	1718.5	767.8	684.6	701.2	724.3	740.9	766.5	771.6
30°	3950.1	3823.4	3127.4	1351.3	643.6	630.8	638.5	666.7	691.0	714.0	717.9
32.5°	4144.6	4038.4	3076.2	1019.9	596.3	580.9	580.9	597.6	625.7	647.5	652.6
35°	4323.8	4254.7	2912.4	746.0	560.5	534.9	522.0	522.0	540.0	557.9	563.0
37.5°	4560.5	4558.0	2647.5	595.0	526.0	496.5	469.6	449.1	442.8	446.6	449.1
40°	4966.2	4970.0	2302.0	533.6	496.5	456.8	415.8	378.8	344.2	332.7	331.4
42.5°	5599.5	5542.0	1939.9	504.2	470.9	415.8	354.5	304.5	250.8	234.2	232.9
45°	6605.3	6263.6	1556.0	477.3	444.1	369.8	293.1	225.2	181.7	168.9	168.9
47.5°	8070.5	7211.9	1205.4	447.9	408.2	317.4	221.3	162.6	133.1	126.7	128.0
50°	9585.5	8140.8	923.9	410.7	364.7	262.3	163.8	117.7	101.1	101.1	102.4
52.5°	10929.1	8821.6	720.5	371.1	311.0	206.1	124.1	92.1	84.5	83.2	84.5
55°	12187.0	9260.5	551.5	325.0	247.0	153.5	94.6	75.5	70.3	67.8	66.5
57.5°	13400.0	9478.0	413.3	262.3	179.1	111.3	75.5	64.0	58.9	55.1	53.8
60°	14207.4	9301.4	284.0	193.2	124.1	80.6	62.7	55.1	48.6	44.8	43.5
62.5°	14662.9	8819.1	183.0	139.5	88.3	60.2	49.9	46.1	37.1	33.3	33.3
65°	14478.7	8023.1	128.0	99.8	64.0	44.8	37.1	37.1	26.8	21.8	20.5
67.5°	12830.6	6778.0	97.3	74.2	46.1	33.3	28.1	32.0	16.7	10.2	10.2
69°	11039.1	5617.4	83.2	61.4	38.4	26.8	24.3	29.4	11.6	7.6	6.4
70°	9594.5	4845.8	75.5	53.8	32.0	23.0	21.8	28.1	11.6	6.4	5.1
72.5°	5740.3	2702.5	57.6	38.4	20.5	17.9	17.9	32.0	11.6	6.4	5.1
75°	2319.9	952.0	42.2	26.8	15.4	15.4	21.8	41.0	10.2	5.1	3.8
77.5°	526.0	208.6	24.3	16.7	10.2	15.4	25.6	32.0	6.4	2.5	0.0
80°	128.0	51.1	15.4	10.2	6.4	11.6	19.2	17.9	1.3	0.0	0.0
82.5°	42.2	17.9	6.4	5.1	1.3	3.8	8.9	5.1	0.0	0.0	0.0
85°	17.9	10.2	2.5	1.3	0.0	0.0	1.3	0.0	0.0	0.0	0.0
87.5°	11.6	3.8	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)