

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: P383118

Luminaire Tested: **GLEON-SA4C-735-U-T2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383118  
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-SA4C-735-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 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: 18907.6 lumens  
Efficiency: N/A  
Efficacy: 84.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3

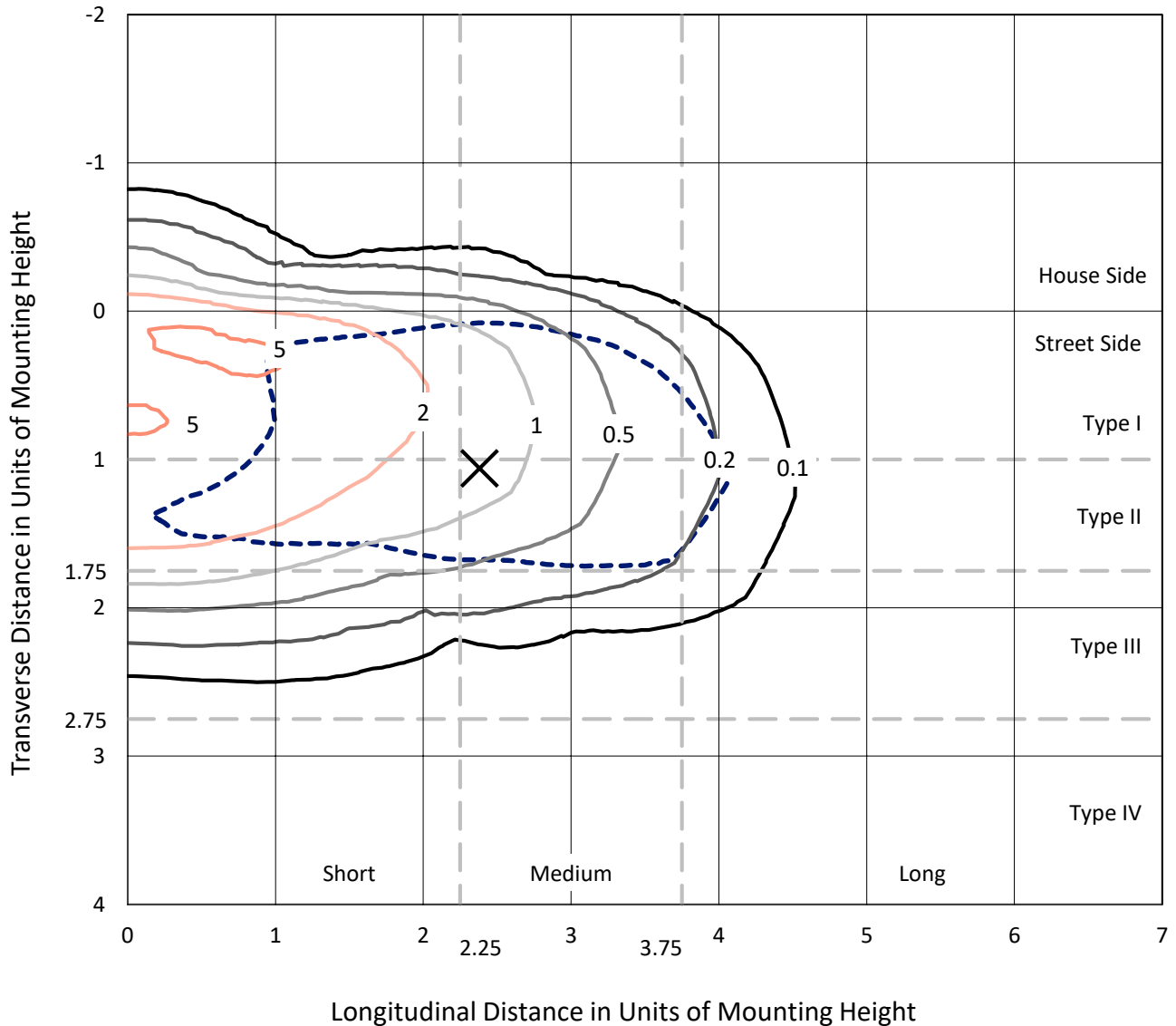
Input Watts (W): 225  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P383118  
 CATALOG NUMBER: GLEON-SA4C-735-U-T2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

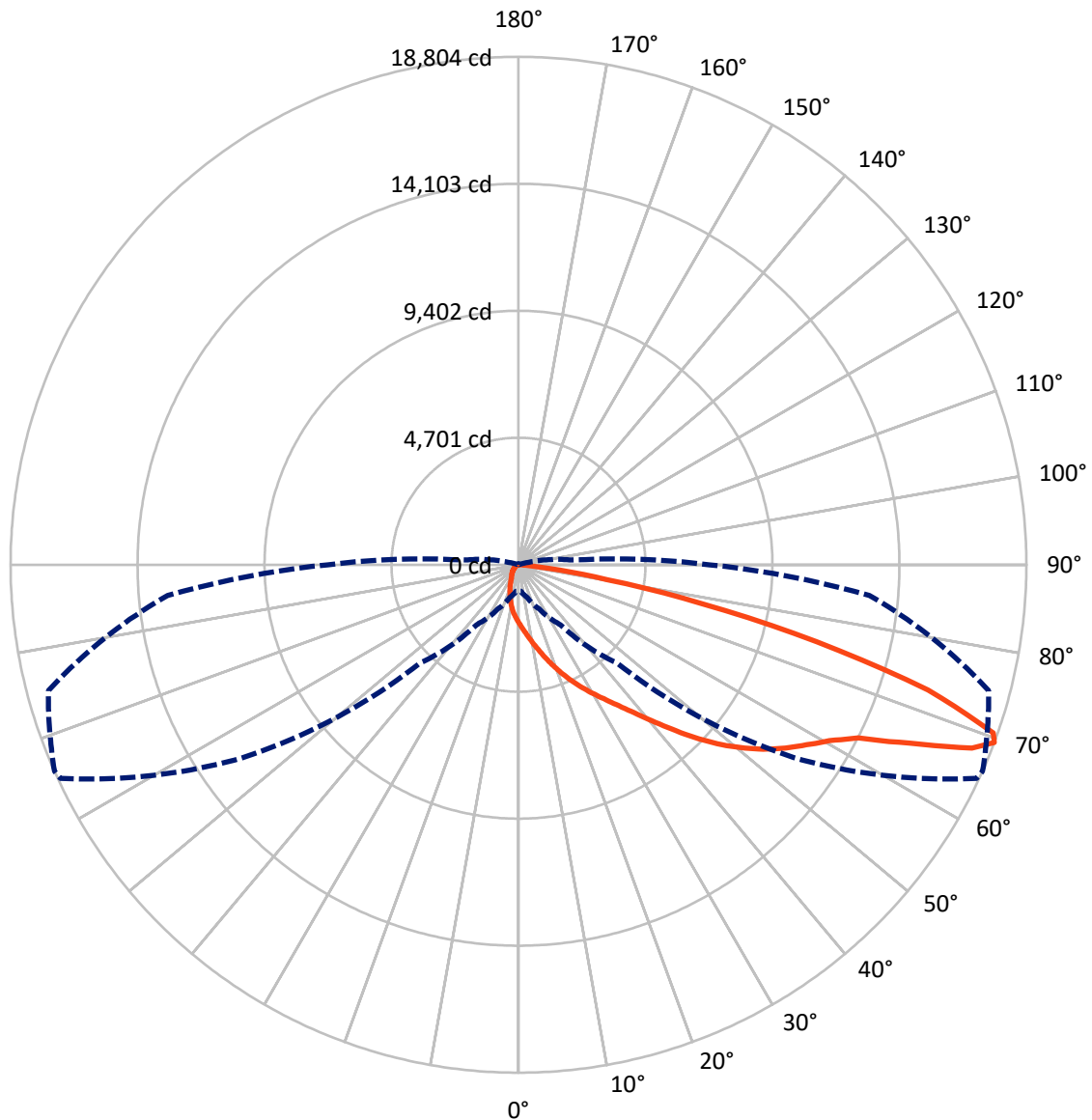
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type II - Medium - N/A

REPORT NUMBER: P383118  
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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	1134.2	0.0	1134.2
	% Fixture	6.0	0.0	6.0
<b>Street Side</b>	Lumens	17773.4	0.0	17773.4
	% Fixture	94.0	0.0	94.0
<b>Total</b>	Lumens	18907.6	0.0	18907.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	208.0	1.1
10°-20°	619.0	3.3
20°-30°	1078.0	5.7
30°-40°	1891.3	10.0
40°-50°	3165.7	16.7
50°-60°	4653.3	24.6
60°-70°	4777.8	25.3
70°-80°	2358.6	12.5
80°-90°	156.0	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°	18907.6	100.0
0°-180°	18907.6	100.0

**Coefficient of Utilization**

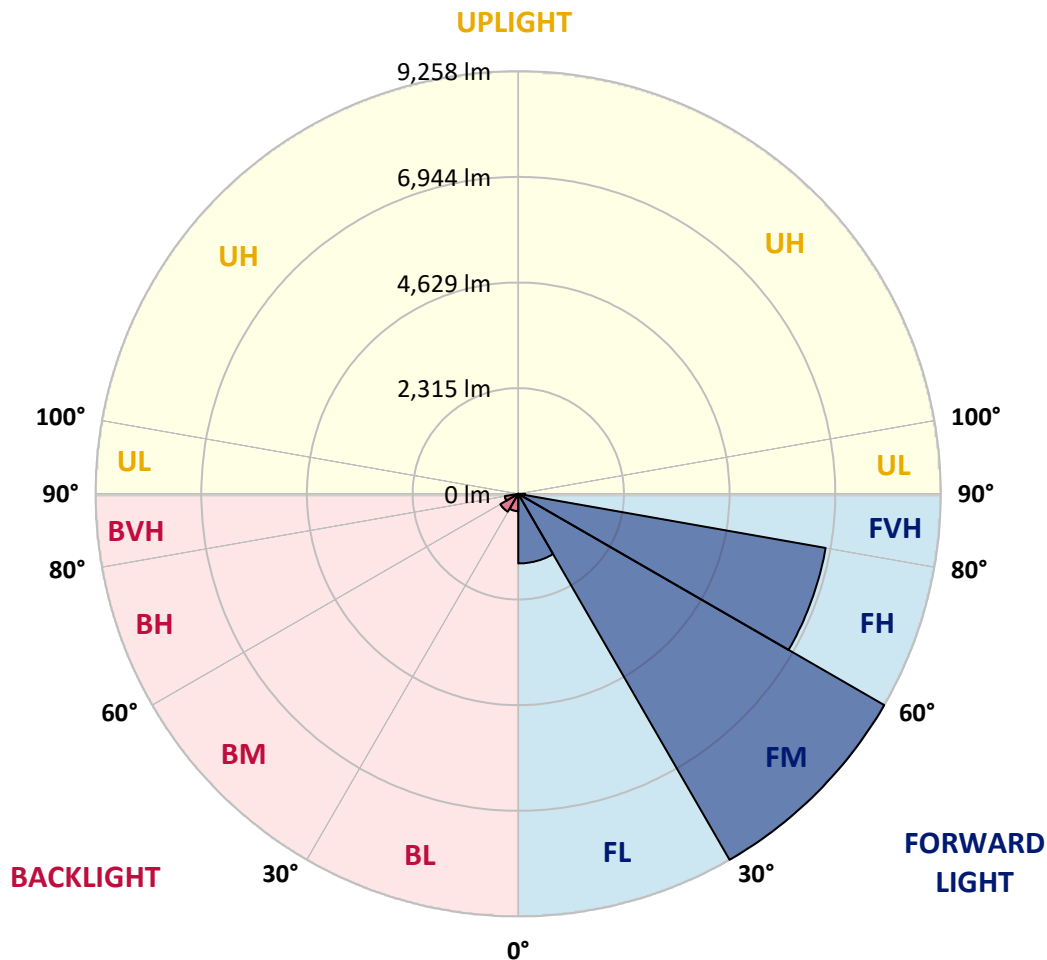


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 CATALOG NUMBER: GLEON-SA4C-735-U-T2-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1525.7	8.1			
FM (30°-60°)	9258.1	49.0			
FH (60°-80°)	6837.5	36.2			G3/7500
FVH (80°-90°)	152.2	0.8			G2/225
BL (0°-30°)	379.3	2.0	B1/500		
BM (30°-60°)	452.2	2.4	B1/1000		
BH (60°-80°)	298.9	1.6	B1/500		G1/500
BVH (80°-90°)	3.8	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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2151.8	2151.8	2151.8	2151.8	2151.8	2151.8	2151.8	2151.8	2151.8	2151.8	2151.8
2.5°	2532.5	2521.8	2517.2	2497.5	2463.4	2437.3	2387.0	2328.7	2317.9	2261.3	2192.1
5°	2861.2	2852.2	2846.0	2818.1	2783.1	2717.5	2625.9	2517.2	2496.6	2388.9	2250.5
7.5°	3090.2	3106.3	3106.3	3088.5	3044.4	2995.0	2882.8	2734.6	2708.6	2543.3	2328.7
10°	3224.0	3243.7	3259.0	3274.3	3268.1	3248.3	3142.3	2975.3	2943.9	2724.7	2419.4
12.5°	3236.6	3256.3	3299.4	3363.3	3425.2	3470.1	3403.6	3242.0	3206.1	2934.8	2527.1
15°	3166.5	3187.2	3253.7	3377.6	3527.6	3658.7	3680.3	3537.5	3500.7	3185.4	2661.8
17.5°	3044.4	3057.9	3153.1	3324.6	3559.9	3800.6	3930.8	3854.5	3820.4	3471.9	2811.8
20°	2953.8	2963.6	3047.1	3231.3	3540.2	3889.5	4167.9	4191.2	4155.4	3779.0	2974.3
22.5°	3109.0	3127.0	3129.7	3216.8	3486.2	3933.5	4376.2	4522.7	4495.6	4105.1	3134.2
25°	3533.8	3554.5	3486.2	3432.4	3532.1	3953.2	4555.0	4862.1	4840.5	4456.2	3295.0
27.5°	4095.2	4116.7	4028.7	3868.0	3771.8	4027.8	4713.9	5207.0	5206.0	4827.9	3468.3
30°	4646.6	4668.1	4578.3	4417.6	4196.6	4238.8	4851.3	5568.0	5573.4	5211.4	3652.4
32.5°	5224.9	5251.9	5159.4	4952.8	4722.0	4603.4	5044.4	5930.8	5961.3	5656.0	3859.9
35°	5882.3	5885.9	5755.7	5539.3	5273.4	5091.1	5354.3	6337.6	6410.4	6206.4	4123.0
37.5°	6527.1	6553.2	6446.3	6105.0	5860.7	5654.2	5814.9	6845.9	6949.2	6879.1	4467.0
40°	7004.9	7059.6	7044.4	6676.1	6444.4	6297.2	6387.0	7450.3	7581.4	7662.3	4900.7
42.5°	7304.8	7346.1	7416.1	7194.3	6984.2	7008.4	7062.3	8154.4	8316.0	8554.9	5399.2
45°	7648.8	7668.5	7726.9	7629.0	7487.1	7731.4	7779.0	8947.3	9117.1	9514.9	5952.3
47.5°	8069.1	8115.7	8131.9	8042.1	7977.5	8370.8	8469.6	9668.5	9906.4	10543.2	6537.9
50°	8604.3	8616.9	8644.7	8586.4	8521.7	8920.4	9089.2	10425.6	10642.0	11575.0	7115.3
52.5°	9127.9	9172.8	9269.7	9232.9	9206.9	9388.3	9641.5	11108.1	11349.7	12435.4	7691.9
55°	9278.8	9317.3	9652.3	9881.3	10093.3	9964.9	10169.6	11719.7	11981.0	13204.1	8246.9
57.5°	8676.2	8754.3	9334.4	9930.8	10810.0	10861.1	10895.3	12347.4	12581.8	13793.2	8824.4
60°	7153.1	7168.3	8120.2	9143.1	10691.4	11643.3	11954.9	13021.8	13218.6	14342.0	9515.9
62.5°	4549.6	4705.0	5749.3	7193.4	9437.7	11530.1	13236.5	14042.1	14113.9	15000.2	10507.3
65°	2167.1	2267.6	3020.2	4444.5	6836.0	10081.6	14121.1	15887.5	15919.9	16305.2	11832.0
67.5°	1199.8	1248.3	1606.6	2392.4	3996.3	7129.7	13763.6	18073.4	18104.0	17637.8	12994.0
69°	938.4	979.8	1261.8	1803.3	2709.4	5124.4	12455.2	18713.8	18804.4	18019.6	13035.3
70°	796.6	837.0	1086.7	1523.1	2178.7	3959.5	11086.5	18554.8	18650.9	17983.6	12727.3
72.5°	487.7	511.0	723.8	1072.3	1460.2	1991.9	6836.9	15691.7	15854.3	16496.4	10938.3
75°	328.6	341.2	452.6	740.0	1044.5	1025.5	3551.8	11060.5	11412.5	12832.3	8078.9
77.5°	235.3	247.0	303.5	478.6	731.9	677.1	1608.4	6873.7	6949.2	7696.4	4405.8
80°	133.8	144.6	214.6	284.7	496.6	451.7	639.4	3283.3	3321.1	3300.4	1471.0
82.5°	70.1	79.0	117.7	187.7	318.8	295.5	265.9	1099.2	1104.6	918.7	322.4
85°	13.5	16.2	58.4	128.5	164.3	128.5	108.7	257.8	263.2	232.6	79.9
87.5°	0.0	0.9	23.4	28.7	32.3	33.3	35.0	50.3	53.8	72.8	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



REPORT NUMBER: P383118

CATALOG NUMBER: GLEON-SA4C-735-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2151.8	2151.8	2151.8	2151.8	2151.8	2151.8	2151.8	2151.8	2151.8	2151.8	2151.8
2.5°	2161.7	2129.3	2067.3	1995.5	1939.8	1885.0	1841.9	1797.0	1780.8	1772.7	1771.9
5°	2183.2	2114.9	1983.8	1849.1	1738.6	1634.5	1560.0	1489.0	1455.7	1440.5	1434.2
7.5°	2219.1	2109.6	1898.5	1692.8	1533.9	1403.7	1300.3	1223.1	1184.6	1168.3	1162.1
10°	2261.3	2102.3	1798.8	1527.6	1324.7	1190.0	1087.6	1011.2	969.0	951.0	942.1
12.5°	2310.7	2089.7	1683.9	1360.5	1145.9	1011.2	887.3	793.0	744.5	723.8	713.9
15°	2371.8	2077.2	1563.5	1203.4	988.7	824.4	688.8	625.1	615.2	611.6	612.5
17.5°	2431.9	2057.4	1432.4	1048.0	823.5	643.9	574.8	571.1	573.0	573.0	573.0
20°	2485.8	2012.5	1289.6	915.2	666.3	543.4	528.9	522.7	518.2	514.6	510.1
22.5°	2528.0	1952.3	1152.2	783.2	544.2	497.5	475.1	455.3	439.1	428.4	423.0
25°	2556.8	1872.4	1026.5	656.5	489.4	452.6	412.2	379.0	353.8	338.5	332.3
27.5°	2578.3	1786.2	914.2	549.6	451.7	400.6	347.6	308.1	282.0	268.6	263.2
30°	2593.6	1688.3	815.5	483.2	409.5	345.8	289.2	250.6	231.7	224.5	221.0
32.5°	2608.0	1579.7	722.0	451.7	370.0	295.5	242.5	212.9	201.1	192.2	189.5
35°	2643.9	1479.1	633.2	418.5	329.6	252.4	208.4	186.8	175.1	169.7	168.0
37.5°	2729.2	1404.6	547.8	384.4	289.2	218.3	182.3	167.0	156.2	150.9	149.0
40°	2866.6	1366.9	475.9	347.6	249.7	192.2	165.3	150.9	139.2	131.2	129.3
42.5°	3068.7	1372.3	425.7	310.8	218.3	171.5	149.0	132.0	119.4	112.3	110.5
45°	3313.8	1411.8	390.7	274.8	192.2	155.4	131.2	113.2	101.4	95.2	93.4
47.5°	3579.7	1475.5	361.9	242.5	171.5	140.1	113.2	94.3	84.4	79.0	78.2
50°	3859.9	1537.5	332.3	211.1	153.6	124.8	95.2	78.2	70.1	65.6	63.7
52.5°	4143.6	1609.3	305.4	182.3	138.3	106.8	79.0	63.7	57.5	53.8	52.1
55°	4449.0	1663.2	279.3	159.9	123.1	90.7	65.6	53.0	47.6	43.1	42.2
57.5°	4808.2	1746.7	252.4	138.3	105.1	75.5	53.8	42.2	37.7	33.3	32.3
60°	5293.1	1844.7	223.6	122.1	86.2	61.9	44.0	34.1	28.7	25.2	24.2
62.5°	5932.6	1953.3	187.7	106.8	70.1	50.3	35.0	26.9	20.7	16.2	16.2
65°	6743.6	2130.2	153.6	89.8	57.5	41.3	26.9	19.7	11.6	7.2	7.2
67.5°	7216.8	2160.7	123.9	73.7	46.7	35.0	22.5	13.5	3.6	0.9	0.0
69°	7065.0	1983.8	105.1	62.9	40.4	33.3	20.7	9.9	1.8	0.0	0.0
70°	6779.4	1814.1	92.5	55.7	36.8	31.4	19.7	7.2	1.8	0.0	0.0
72.5°	5602.0	1291.4	70.1	41.3	26.9	27.9	18.0	4.5	1.8	0.0	0.0
75°	4080.7	784.9	50.3	28.7	17.0	20.7	12.6	1.8	0.9	0.0	0.0
77.5°	2270.3	370.0	31.4	16.2	10.8	12.6	6.2	0.0	0.0	0.0	0.0
80°	737.3	100.6	14.3	8.9	6.2	7.2	2.7	0.0	0.0	0.0	0.0
82.5°	136.5	28.7	8.1	4.5	1.8	1.8	0.0	0.0	0.0	0.0	0.0
85°	29.6	11.6	4.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.9	3.6	0.9	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)