

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: P383656

Luminaire Tested: **GLEON-SA9B-735-U-T3R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383656  
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-SA9B-735-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 800mA 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: 36603.3 lumens  
Efficiency: N/A  
Efficacy: 97.9 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

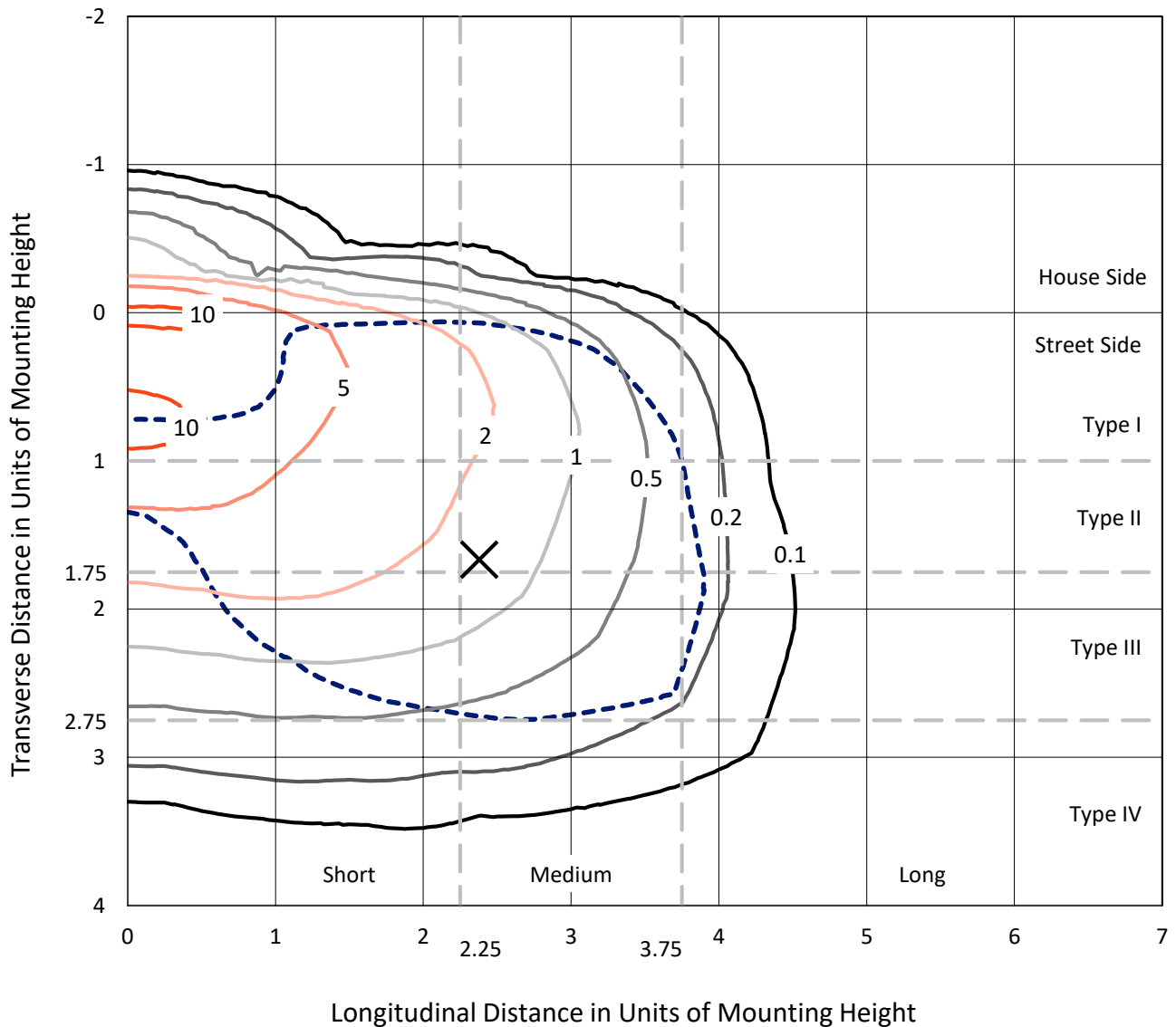
Input Watts (W): 374  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P383656  
 CATALOG NUMBER: GLEON-SA9B-735-U-T3R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

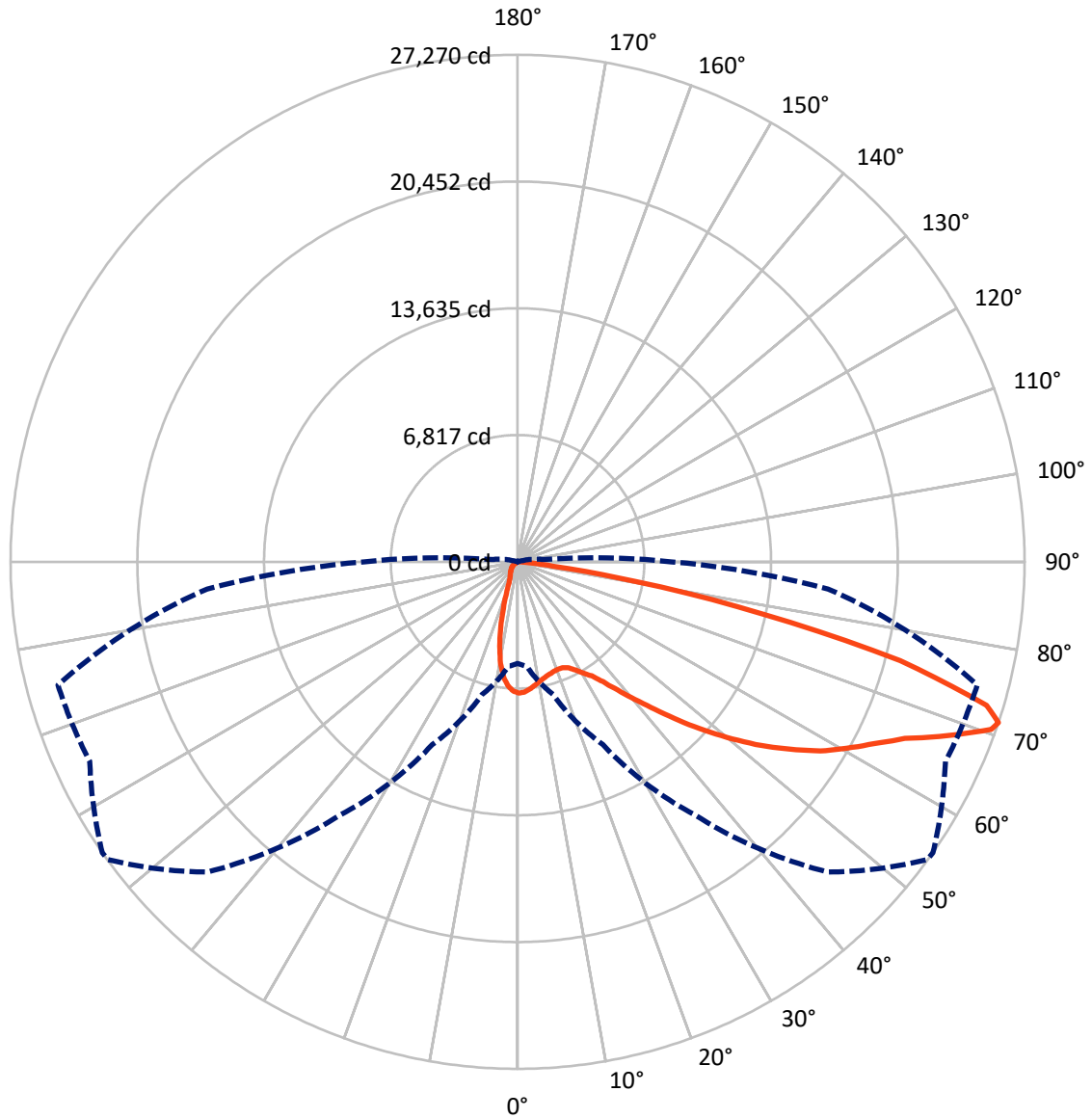
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc  
 Type III - Medium - N/A

REPORT NUMBER: P383656  
CATALOG NUMBER: GLEON-SA9B-735-U-T3R-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P383656  
 CATALOG NUMBER: GLEON-SA9B-735-U-T3R-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2898.0	0.0	2898.0
	% Fixture	7.9	0.0	7.9
<b>Street Side</b>	Lumens	33705.3	0.0	33705.3
	% Fixture	92.1	0.0	92.1
<b>Total</b>	Lumens	36603.3	0.0	36603.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	601.9	1.6
10°-20°	1358.8	3.7
20°-30°	2183.6	6.0
30°-40°	3710.1	10.1
40°-50°	5758.5	15.7
50°-60°	7742.2	21.2
60°-70°	9471.2	25.9
70°-80°	5537.6	15.1
80°-90°	239.4	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°	36603.3	100.0
0°-180°	36603.3	100.0

**Coefficient of Utilization**

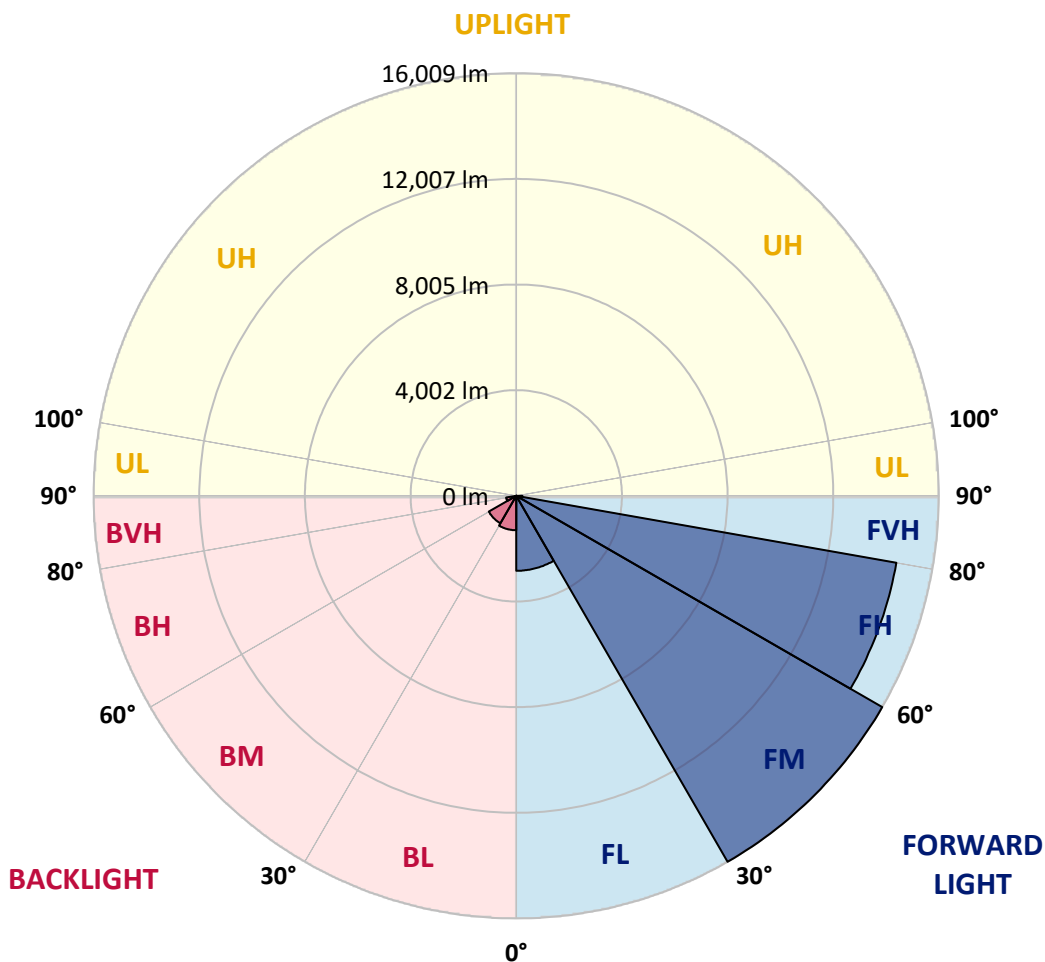


REPORT NUMBER: P383656  
 CATALOG NUMBER: GLEON-SA9B-735-U-T3R-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2839.9	7.8			
FM (30°-60°)	16009.2	43.7			
FH (60°-80°)	14620.6	39.9			G5
FVH (80°-90°)	235.6	0.6			G3/500
BL (0°-30°)	1304.4	3.6	B3/2500		
BM (30°-60°)	1201.6	3.3	B2/2500		
BH (60°-80°)	388.3	1.1	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: B3-U0-G5**  
 Type III Medium





REPORT NUMBER: P383656

CATALOG NUMBER: GLEON-SA9B-735-U-T3R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7059.1	7059.1	7059.1	7059.1	7059.1	7059.1	7059.1	7059.1	7059.1	7059.1	7059.1
2.5°	6852.0	6860.2	6889.8	6903.0	6934.2	6986.8	7013.1	7014.7	7057.4	7073.9	7087.0
5°	6367.1	6416.4	6465.8	6518.3	6613.7	6740.2	6865.1	6876.7	7014.7	7116.6	7170.9
7.5°	5949.7	5994.0	6053.2	6137.0	6271.8	6470.7	6679.4	6704.1	6965.4	7197.1	7318.8
10°	5520.7	5556.9	5642.3	5765.6	5951.3	6217.6	6498.7	6539.7	6921.0	7305.6	7519.3
12.5°	5062.1	5083.5	5187.0	5364.6	5637.4	5976.0	6345.8	6400.0	6893.1	7430.5	7756.0
15°	4713.7	4723.6	4822.2	5006.2	5318.6	5759.0	6227.4	6293.2	6899.7	7580.1	8014.0
17.5°	4624.9	4629.9	4682.5	4809.0	5085.1	5565.1	6133.8	6214.3	6919.3	7726.3	8273.6
20°	4984.9	4950.4	4896.1	4876.5	4994.8	5448.4	6077.9	6168.2	6945.7	7856.2	8507.1
22.5°	5972.7	5870.8	5645.6	5344.8	5162.5	5456.6	6092.7	6183.1	7029.5	8015.6	8776.6
25°	7438.8	7297.4	6914.4	6322.8	5754.1	5693.2	6215.9	6308.0	7192.2	8206.3	9034.6
27.5°	9107.0	8967.3	8498.8	7654.1	6684.3	6161.7	6498.7	6584.1	7433.8	8375.5	9231.8
30°	10704.5	10665.0	10112.8	9153.0	7854.5	6921.0	6863.5	6935.8	7613.0	8477.5	9388.0
32.5°	12058.8	11996.3	11552.6	10619.0	9194.1	7833.2	7292.4	7313.9	7747.8	8609.0	9591.8
35°	13314.4	13237.2	12847.7	11965.1	10568.0	8947.5	7953.2	7922.0	8042.0	8873.5	9887.6
37.5°	14410.7	14481.4	14049.1	13209.3	11800.8	10106.3	8844.0	8750.3	8502.1	9304.2	10316.6
40°	15327.8	15327.8	15102.6	14402.5	13132.0	11304.4	9851.5	9728.2	9194.1	9968.2	10860.6
42.5°	15658.2	15728.8	15812.6	15416.6	14323.6	12550.2	10974.0	10845.8	10168.7	10909.9	11547.7
45°	15677.9	15789.6	16218.6	16216.9	15400.2	13787.8	12239.6	12178.8	11417.8	12119.6	12399.0
47.5°	15400.2	15539.8	16246.6	16647.6	16253.2	14940.0	13623.4	13547.9	12885.4	13602.1	13289.8
50°	14971.2	15125.6	15947.4	16816.9	16833.3	15942.5	15081.3	14967.9	14501.1	15296.6	14210.2
52.5°	14203.6	14502.7	15679.5	16856.4	17214.6	16808.7	16468.5	16419.2	16309.0	16928.6	14943.2
55°	12561.7	12893.7	15007.3	16869.5	17568.0	17576.2	17768.5	17781.7	18003.6	18453.9	15488.8
57.5°	11785.9	11973.3	13833.9	16931.9	18092.2	18447.3	19093.2	19195.1	19538.7	19901.9	16111.8
60°	11297.8	11519.7	13255.3	16846.5	18915.7	19589.5	20321.0	20355.4	20723.6	21395.8	16954.9
62.5°	10908.3	11126.9	12890.4	16517.7	19841.0	20963.5	21520.7	21524.1	21800.2	23175.8	17913.1
65°	9946.8	10130.9	12152.5	16147.9	20452.4	22322.8	22914.5	22893.1	23118.3	25052.8	19025.8
67.5°	8556.4	8697.7	10645.4	14746.0	20222.3	23558.7	25018.2	24947.6	24674.7	26675.0	19463.0
70°	6615.3	6666.2	8390.4	12288.9	18066.0	24033.7	27051.3	27015.2	25629.7	26384.0	17860.6
71°	5468.1	5635.8	7394.3	10845.8	16621.3	23594.9	27248.5	27269.9	25389.7	25591.8	16757.7
72.5°	3175.4	3318.4	5359.7	8329.5	14111.5	21764.0	26226.2	26380.8	24268.8	23277.7	14313.7
75°	680.4	728.1	1987.1	4031.6	7762.5	15253.8	20700.6	21251.2	19780.2	15835.7	8627.1
77.5°	473.3	511.1	851.3	1829.3	2565.6	7537.3	12859.2	13480.4	11817.1	5951.3	2761.2
80°	374.8	417.4	664.0	904.0	693.5	2430.8	6023.7	6403.3	3941.3	1328.0	465.1
82.5°	208.8	248.2	517.8	488.1	266.2	461.9	1686.3	1906.5	788.9	267.9	110.1
85°	60.8	74.0	333.7	355.0	113.4	88.8	287.7	356.7	149.6	70.7	49.3
87.5°	0.0	0.0	161.1	136.4	32.9	13.1	26.3	29.6	29.6	29.6	32.9
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: P383656

CATALOG NUMBER: GLEON-SA9B-735-U-T3R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7059.1	7059.1	7059.1	7059.1	7059.1	7059.1	7059.1	7059.1	7059.1	7059.1	7059.1
2.5°	7087.0	7098.5	7057.4	7003.2	6945.7	6875.0	6801.0	6743.5	6741.9	6713.9	6686.0
5°	7174.1	7167.5	7054.1	6881.5	6677.8	6465.8	6263.6	6035.1	5959.6	5865.9	5834.7
7.5°	7335.2	7289.2	7049.2	6671.2	6224.1	5780.3	5321.8	4860.0	4662.8	4485.3	4454.0
10°	7537.3	7450.2	7018.0	6355.7	5535.5	4717.0	4025.0	3397.3	3121.2	2909.1	2899.3
12.5°	7747.8	7614.6	6930.9	5879.0	4633.1	3482.7	2685.6	2067.6	1837.5	1689.5	1702.7
15°	7968.0	7769.1	6743.5	5236.4	3605.9	2363.4	1650.1	1286.9	1194.9	1157.1	1166.9
17.5°	8193.1	7876.0	6482.2	4462.3	2591.8	1525.2	1142.3	1040.4	1040.4	1048.5	1051.9
20°	8388.7	7933.4	6097.6	3594.5	1757.0	1111.1	999.3	984.5	992.8	1005.9	1007.5
22.5°	8582.6	7936.7	5596.3	2715.2	1229.4	973.0	951.6	945.1	950.0	964.8	966.4
25°	8740.4	7897.3	4968.5	1931.2	981.2	917.1	907.2	904.0	907.2	925.3	925.3
27.5°	8804.5	7754.3	4202.6	1357.5	879.3	854.7	851.3	854.7	859.5	872.8	874.4
30°	8811.1	7504.5	3367.6	982.9	797.1	770.9	777.4	788.9	784.0	780.7	784.0
32.5°	8827.5	7215.2	2554.1	808.7	728.1	687.0	678.8	678.8	659.1	647.5	641.0
35°	8881.7	6875.0	1852.3	726.4	657.4	609.8	578.5	542.3	504.5	484.9	479.9
37.5°	8967.3	6518.3	1326.3	672.2	595.0	540.8	481.5	417.4	363.2	348.4	348.4
40°	9123.4	6150.2	981.2	629.4	545.7	478.3	389.5	305.7	256.4	248.2	248.2
42.5°	9369.9	5762.3	782.3	591.7	502.9	414.2	297.4	221.9	185.8	180.8	179.1
45°	9626.3	5335.0	683.8	555.5	456.9	340.2	220.2	164.3	143.0	138.1	138.1
47.5°	9882.7	4879.7	636.1	521.0	412.5	264.7	164.3	129.9	120.0	120.0	121.7
50°	10099.7	4404.7	601.5	483.2	355.0	200.5	129.9	110.1	106.8	113.4	115.0
52.5°	10153.9	3937.9	558.8	435.5	284.3	152.9	106.8	97.0	97.0	97.0	97.0
55°	10121.0	3576.4	502.9	376.3	210.3	121.7	92.0	85.4	83.8	83.8	83.8
57.5°	10232.8	3362.7	402.7	292.6	151.2	98.7	80.6	75.6	72.3	70.7	70.7
60°	10457.9	3223.1	287.7	210.3	113.4	82.2	69.0	64.1	59.2	55.9	55.9
62.5°	10757.0	3101.4	213.7	156.1	87.1	65.8	57.6	52.6	46.0	42.8	42.8
65°	10987.1	2884.4	162.7	116.7	65.8	52.6	44.3	42.8	32.9	29.6	27.9
67.5°	10635.5	2407.8	131.4	85.4	49.3	41.1	34.6	32.9	19.7	16.4	16.4
70°	9121.7	1676.4	105.2	62.4	36.1	32.9	27.9	21.3	14.8	13.1	13.1
71°	8272.0	1400.3	95.3	52.6	31.2	31.2	26.3	18.1	13.1	11.6	11.6
72.5°	6871.7	994.3	80.6	41.1	27.9	32.9	27.9	16.4	13.1	11.6	9.9
75°	3988.9	415.8	55.9	27.9	21.3	39.4	36.1	14.8	9.9	8.2	8.2
77.5°	1199.8	152.9	31.2	18.1	16.4	34.6	41.1	13.1	4.9	1.7	1.7
80°	218.6	65.8	19.7	11.6	11.6	21.3	31.2	6.6	0.0	0.0	0.0
82.5°	77.2	32.9	11.6	6.6	4.9	9.9	14.8	0.0	0.0	0.0	0.0
85°	44.3	23.0	6.6	3.3	0.0	1.7	3.3	0.0	0.0	0.0	0.0
87.5°	29.6	6.6	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)