

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: P382645

Luminaire Tested: **GLEON-SA0B-735-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382645
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA0B-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54895.2 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

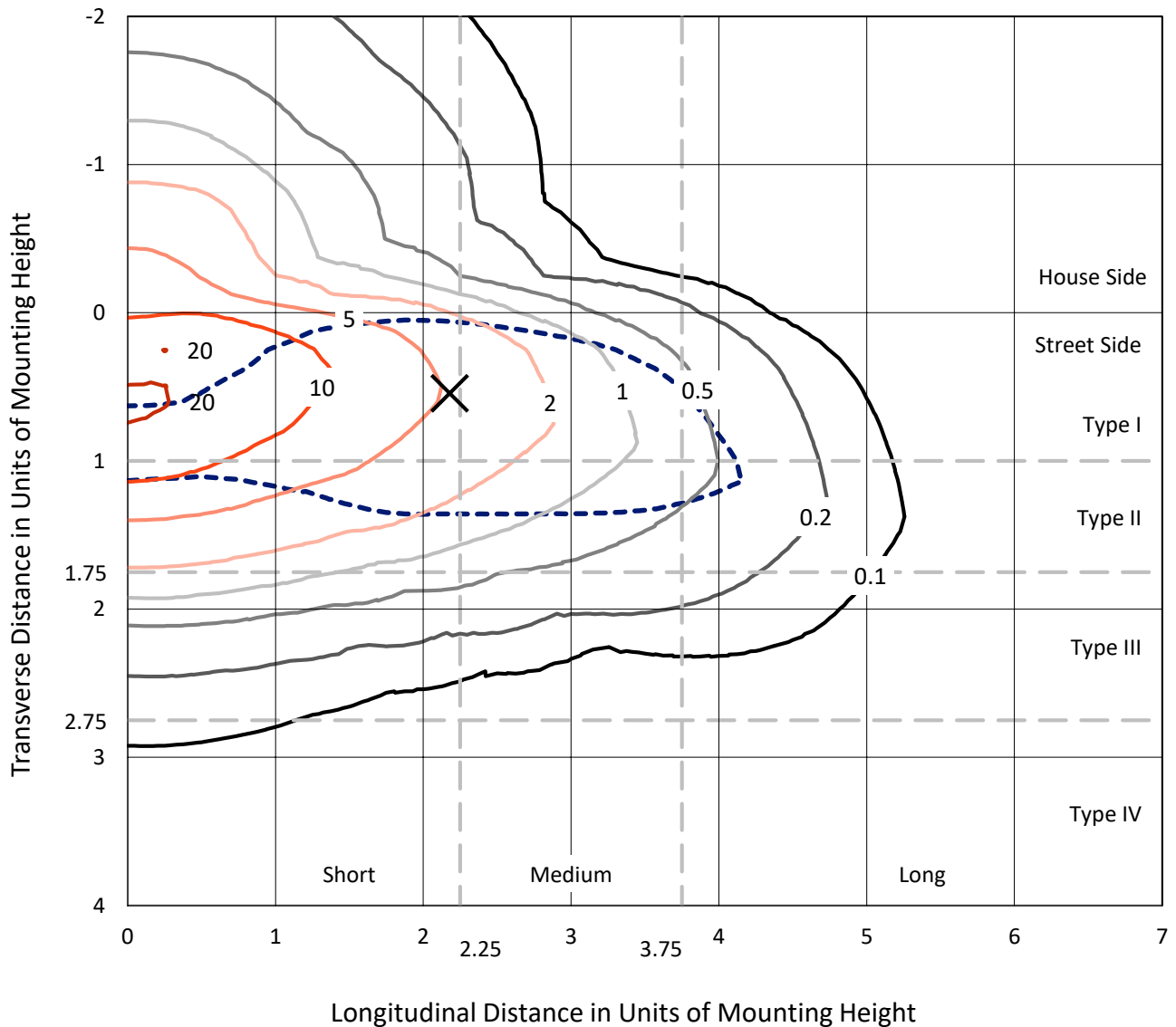
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P382645
 CATALOG NUMBER: GLEON-SA0B-735-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

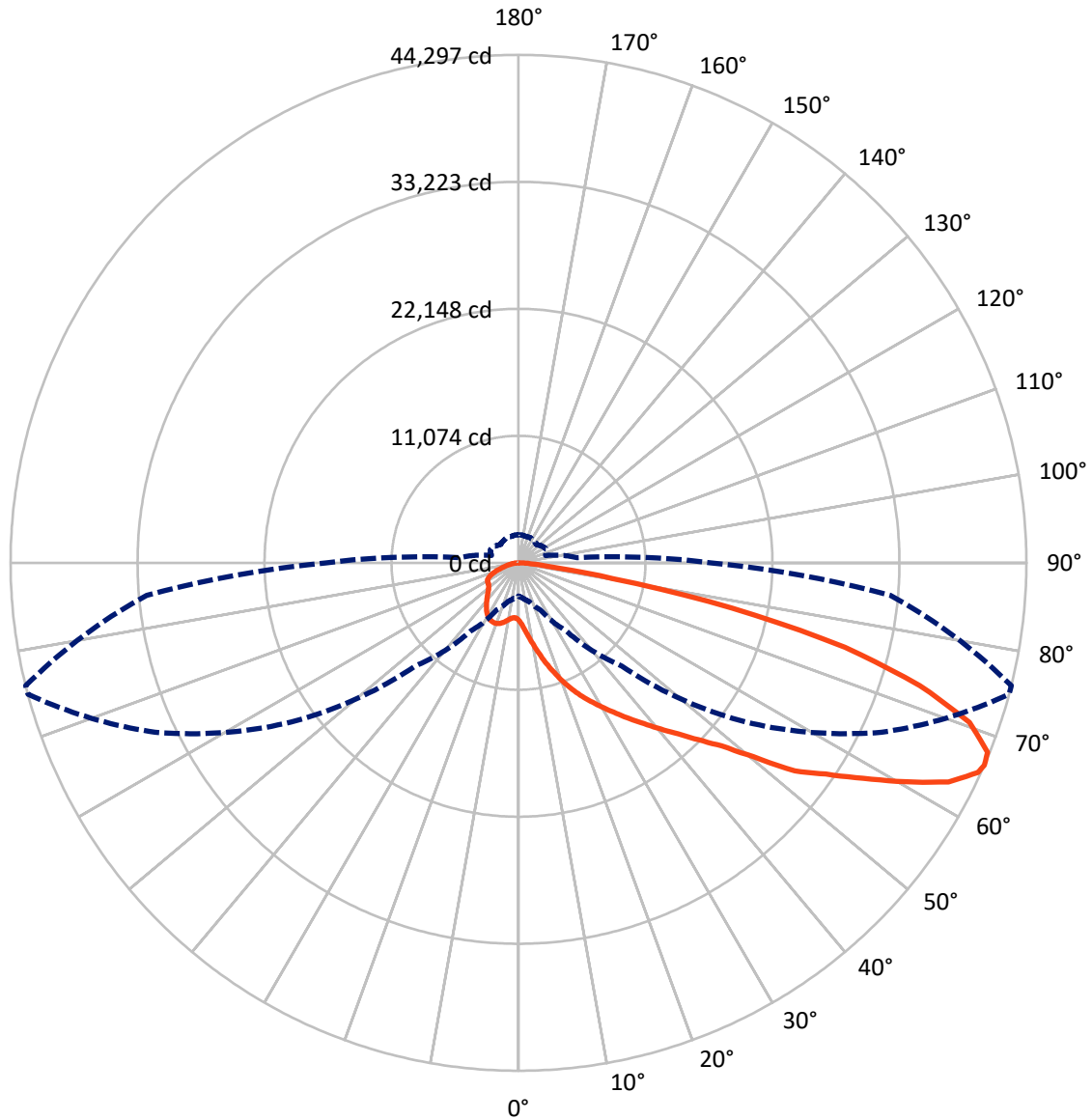
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.3 fc
 Type II - Short - N/A

REPORT NUMBER: P382645
CATALOG NUMBER: GLEON-SA0B-735-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P382645
 CATALOG NUMBER: GLEON-SA0B-735-U-T2R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9237.0	0.0	9237.0
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	45658.2	0.0	45658.2
	% Fixture	83.2	0.0	83.2
Total	Lumens	54895.2	0.0	54895.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	606.2	1.1
10°-20°	2394.0	4.4
20°-30°	4652.0	8.5
30°-40°	7593.2	13.8
40°-50°	10374.1	18.9
50°-60°	12083.7	22.0
60°-70°	10833.3	19.7
70°-80°	5474.7	10.0
80°-90°	884.1	1.6
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°	54895.2	100.0
0°-180°	54895.2	100.0

Coefficient of Utilization

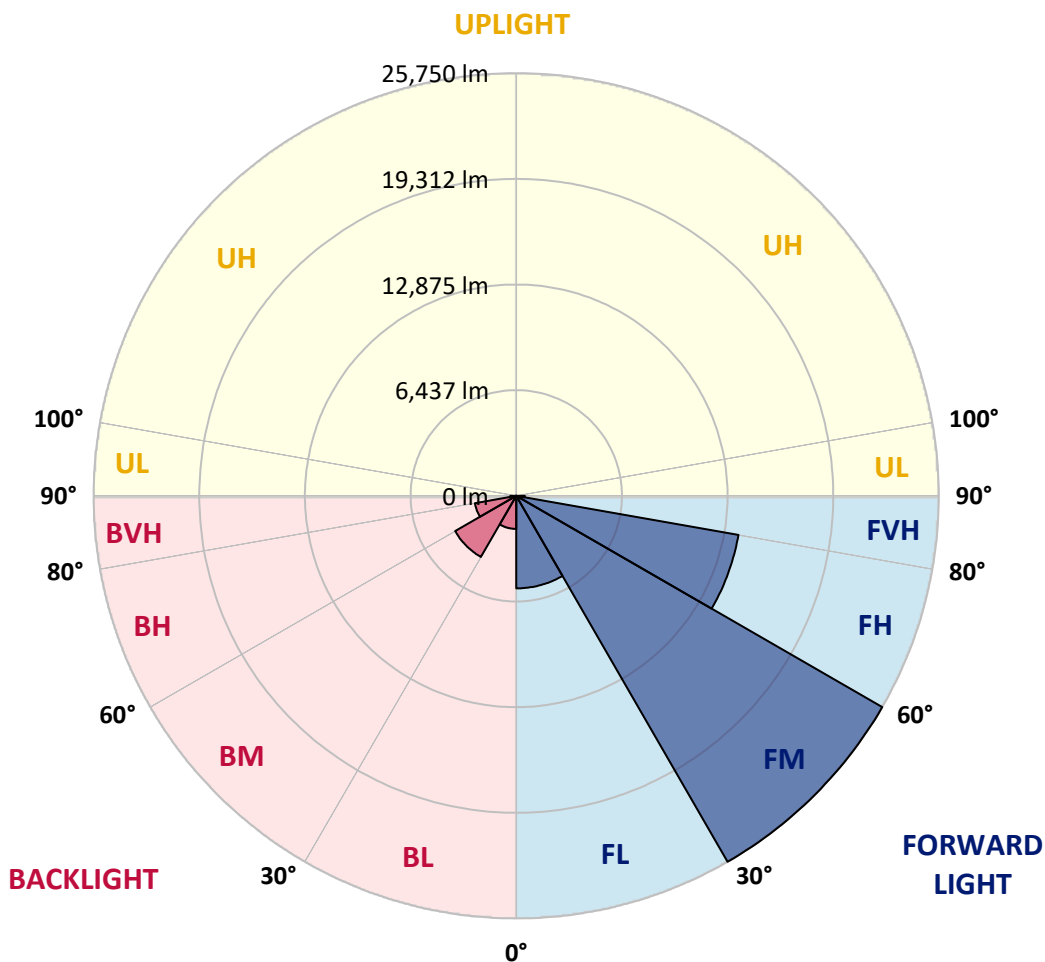


REPORT NUMBER: P382645
 CATALOG NUMBER: GLEON-SA0B-735-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5637.6	10.3			
FM (30°-60°)	25749.6	46.9			
FH (60°-80°)	13748.9	25.0			G5
FVH (80°-90°)	522.1	1.0			G4/750
BL (0°-30°)	2014.6	3.7	B3/2500		
BM (30°-60°)	4301.3	7.8	B3/5000		
BH (60°-80°)	2559.1	4.7	B4/5000		G4/5000
BVH (80°-90°)	362.0	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type II Short





REPORT NUMBER: P382645

CATALOG NUMBER: GLEON-SA0B-735-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5013.1	5013.1	5013.1	5013.1	5013.1	5013.1	5013.1	5013.1	5013.1	5013.1	5013.1
2.5°	6655.1	6554.4	6545.1	6397.9	6364.3	6082.9	5876.0	5659.8	5413.9	5365.4	5171.6
5°	8548.4	8539.1	8410.6	8170.1	7982.0	7501.1	7025.9	6522.7	5971.0	5881.6	5445.5
7.5°	10251.9	10237.0	10138.1	9879.1	9607.1	9016.3	8337.9	7566.3	6671.8	6539.5	5816.4
10°	11545.2	11539.6	11506.1	11316.0	11084.9	10518.3	9769.1	8716.2	7486.2	7305.5	6280.4
12.5°	12544.1	12555.3	12577.7	12510.6	12400.6	11917.9	11150.1	9935.0	8354.7	8175.7	6796.7
15°	13220.6	13254.2	13369.7	13464.8	13522.5	13226.2	12482.6	11181.8	9327.5	9113.1	7368.8
17.5°	13561.7	13598.9	13798.4	14085.3	14349.9	14320.1	13729.3	12370.8	10261.2	10054.3	7983.8
20°	13856.1	13884.1	14107.7	14452.5	14920.2	15127.1	14795.4	13515.1	11284.3	11038.3	8636.1
22.5°	14709.6	14745.0	14812.2	15007.8	15421.6	15801.7	15641.4	14597.8	12221.7	11992.5	9254.8
25°	16357.0	16400.0	16254.6	16088.8	16167.0	16431.7	16461.5	15585.5	13172.2	12913.1	9920.1
27.5°	18341.9	18403.4	18155.5	17728.7	17356.0	17253.5	17218.1	16394.4	14079.7	13779.7	10578.0
30°	20285.7	20391.9	20069.4	19515.9	18832.0	18351.2	17995.3	17186.4	14974.3	14687.2	11198.6
32.5°	22184.6	22141.8	21674.0	21133.6	20332.2	19730.3	18869.2	18036.3	15980.6	15650.7	11815.4
35°	23485.4	23500.4	23066.1	22425.1	21661.0	21198.8	20039.6	18953.1	17007.5	16703.8	12516.2
37.5°	24592.5	24523.5	24031.5	23433.3	22775.4	22577.9	21409.4	19963.3	18120.1	17788.4	13261.6
40°	24961.5	24881.4	24558.9	24128.4	23601.0	23584.3	22920.8	21107.5	19378.1	19050.1	14102.1
42.5°	24737.8	24635.3	24503.1	24385.6	24223.5	24298.0	24340.9	22449.3	20760.8	20393.7	15075.0
45°	23912.3	23757.5	23850.8	24106.0	24458.2	24879.5	25623.1	23934.6	22309.5	22002.0	16217.3
47.5°	22643.1	22503.3	22794.0	23340.1	24298.0	25364.0	26836.3	25574.6	24158.3	23852.6	17844.3
50°	20857.7	20898.7	21314.4	22307.7	23755.7	25587.7	28330.9	27745.8	26845.6	26560.5	20063.9
52.5°	17928.1	17935.6	19105.9	20736.6	22794.0	25472.1	29160.2	30520.7	30515.1	30170.3	22177.2
55°	15207.2	15373.1	16299.3	18466.7	21236.1	25009.9	29739.8	31869.9	32924.8	32520.3	24147.1
57.5°	12549.7	12646.6	13524.4	15701.0	19012.8	23778.0	30334.4	33489.4	35701.6	35446.2	26595.9
60°	9526.8	9676.0	10583.6	12594.4	16168.9	21592.1	30390.2	35179.8	39020.7	38763.6	29329.8
62.5°	6183.5	6440.7	7290.5	9174.6	12728.6	18448.1	29093.2	36284.9	42166.5	42075.2	31756.3
65°	3553.9	3747.8	4338.5	5792.2	8781.4	14500.9	26008.8	35860.0	44102.8	44050.7	32663.9
66°	2903.5	3024.6	3477.6	4526.8	7245.8	12734.2	24216.0	34963.6	44294.8	44296.7	32559.5
67.5°	2322.1	2376.1	2579.3	3240.9	5346.7	10093.4	21012.5	32986.3	44056.2	44121.4	31886.7
70°	1921.4	1949.4	2012.7	2173.0	2918.4	6086.6	14914.6	27848.2	41661.5	41711.8	29260.8
72.5°	1723.8	1740.6	1764.8	1787.3	2059.3	3401.1	9109.4	22277.9	36527.2	36592.4	25259.7
75°	1561.7	1571.1	1567.3	1569.2	1727.6	2167.4	4707.6	16632.9	29534.8	29404.4	19350.1
77.5°	1371.6	1380.9	1362.3	1366.0	1528.2	1666.1	2342.6	11644.0	19931.5	19010.9	10902.3
80°	1159.2	1166.7	1159.2	1172.3	1330.6	1258.0	1362.3	6550.6	8813.1	8336.0	3876.4
82.5°	875.9	907.6	930.0	982.1	1095.8	894.6	911.3	2551.3	2683.6	2555.0	1189.0
85°	383.9	467.7	700.7	751.0	823.8	536.8	598.2	1039.9	1092.1	1058.5	432.3
87.5°	100.6	109.9	346.6	436.1	456.6	242.3	311.2	473.3	499.5	473.3	143.5
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: P382645
 CATALOG NUMBER: GLEON-SA0B-735-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5013.1	5013.1	5013.1	5013.1	5013.1	5013.1	5013.1	5013.1	5013.1	5013.1	5013.1
2.5°	5069.1	4977.7	4813.8	4668.4	4558.4	4483.9	4409.4	4372.0	4349.7	4327.3	4331.0
5°	5231.2	5046.8	4765.3	4565.9	4454.1	4383.3	4345.9	4331.0	4321.7	4299.4	4299.4
7.5°	5475.4	5214.4	4826.8	4621.8	4534.2	4480.2	4457.8	4450.4	4439.2	4413.1	4416.8
10°	5782.9	5417.6	4955.4	4756.0	4675.8	4616.2	4584.5	4573.3	4552.8	4523.0	4526.8
12.5°	6144.4	5669.1	5125.0	4916.2	4819.4	4739.2	4687.0	4655.3	4619.9	4580.8	4582.7
15°	6539.5	5943.1	5307.6	5059.8	4927.4	4815.6	4731.8	4677.7	4621.8	4573.3	4571.5
17.5°	6940.1	6207.7	5447.4	5138.0	4959.1	4811.9	4698.2	4614.3	4545.4	4485.8	4480.2
20°	7372.5	6446.3	5525.7	5130.6	4899.5	4724.3	4573.3	4469.0	4392.6	4332.9	4323.6
22.5°	7812.3	6670.0	5538.7	5054.2	4767.2	4552.8	4394.5	4278.9	4200.6	4139.1	4116.8
25°	8214.9	6843.2	5484.7	4906.9	4582.7	4351.5	4196.9	4079.5	4016.1	3943.4	3921.1
27.5°	8582.0	6964.3	5376.6	4718.8	4375.9	4148.5	4003.0	3902.4	3833.5	3777.6	3759.0
30°	8911.8	7029.6	5199.5	4495.1	4163.4	3956.5	3833.5	3764.6	3704.9	3634.1	3621.0
32.5°	9224.9	7029.6	4972.1	4250.9	3952.7	3786.9	3714.2	3671.3	3604.3	3535.3	3516.7
35°	9538.0	6986.8	4703.8	3995.6	3759.0	3665.7	3662.0	3611.7	3509.2	3416.1	3391.8
37.5°	9867.9	6899.1	4401.9	3757.1	3600.5	3611.7	3643.4	3531.6	3386.2	3253.9	3218.5
40°	10240.7	6778.0	4088.8	3550.2	3468.2	3587.5	3593.1	3416.1	3132.8	3011.6	2979.9
42.5°	10678.6	6656.9	3798.1	3367.5	3363.8	3514.8	3498.1	3166.3	2996.7	2935.2	2918.4
45°	11254.5	6587.9	3522.3	3194.3	3281.8	3397.4	3335.9	3028.4	2957.6	2922.2	2907.3
47.5°	12162.1	6623.3	3268.8	3056.3	3199.9	3280.0	3034.0	2972.5	2922.2	2879.3	2864.4
50°	13298.9	6602.8	3063.8	2961.3	3106.7	3157.0	2898.0	2899.8	2873.7	2825.3	2802.9
52.5°	14154.3	6442.6	2931.5	2907.3	3024.6	2938.9	2812.2	2829.0	2816.0	2745.1	2720.9
55°	14979.8	6304.6	2864.4	2886.8	2965.0	2666.8	2711.5	2752.5	2739.5	2670.6	2659.4
57.5°	16006.7	6278.5	2823.4	2892.4	2914.7	2530.8	2614.7	2668.7	2659.4	2629.6	2624.0
60°	17264.7	6286.0	2786.2	2901.7	2858.8	2430.1	2523.4	2592.3	2597.9	2592.3	2588.6
62.5°	17956.0	6082.9	2692.9	2875.6	2760.1	2342.6	2428.3	2529.0	2530.8	2542.0	2540.1
65°	17369.1	5475.4	2519.6	2784.3	2594.2	2269.9	2346.3	2456.3	2428.3	2478.7	2478.7
66°	16798.8	5125.0	2433.9	2724.6	2523.4	2242.0	2320.2	2418.9	2383.6	2452.6	2452.6
67.5°	15634.0	4534.2	2279.2	2597.9	2422.7	2202.8	2290.4	2357.5	2309.0	2411.5	2404.0
70°	13505.8	3507.4	1968.0	2310.9	2256.9	2145.1	2249.4	2234.5	2163.7	2320.2	2290.4
72.5°	11386.8	2665.0	1580.4	1934.5	2005.2	2072.3	2191.7	2077.9	1988.5	2098.4	2033.2
75°	8835.4	2003.4	1248.6	1504.0	1694.0	1958.7	2122.7	1897.2	1768.5	1757.4	1722.0
77.5°	4776.5	1375.3	989.6	1148.0	1345.5	1817.1	2076.0	1703.3	1509.6	1464.9	1436.8
80°	1891.6	894.6	719.3	870.3	941.1	1612.0	1964.3	1477.9	1244.9	1200.2	1157.4
82.5°	780.8	529.3	464.0	583.3	613.1	1379.1	1763.0	1211.4	961.6	1330.6	1412.6
85°	335.5	290.7	275.8	301.9	346.6	967.2	1403.3	924.4	1038.0	926.2	736.1
87.5°	100.6	123.0	117.4	115.5	126.7	231.1	747.3	514.4	762.2	288.9	216.2
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)