

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: P383113

Luminaire Tested: **GLEON-SA4C-735-U-SL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383113  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)  
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-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25256.1 lumens  
Efficiency: N/A  
Efficacy: 112.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

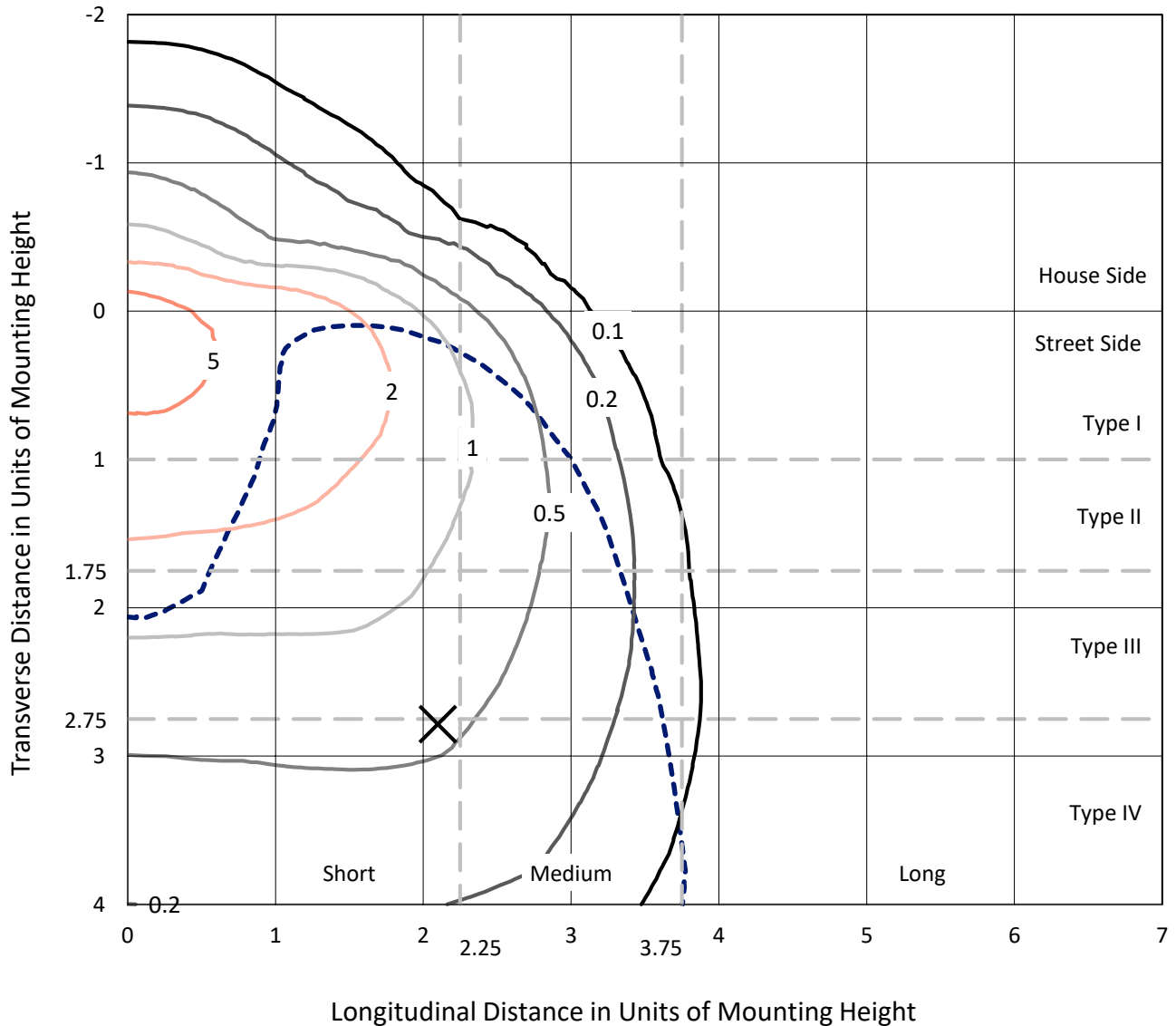
Input Watts (W): 225  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

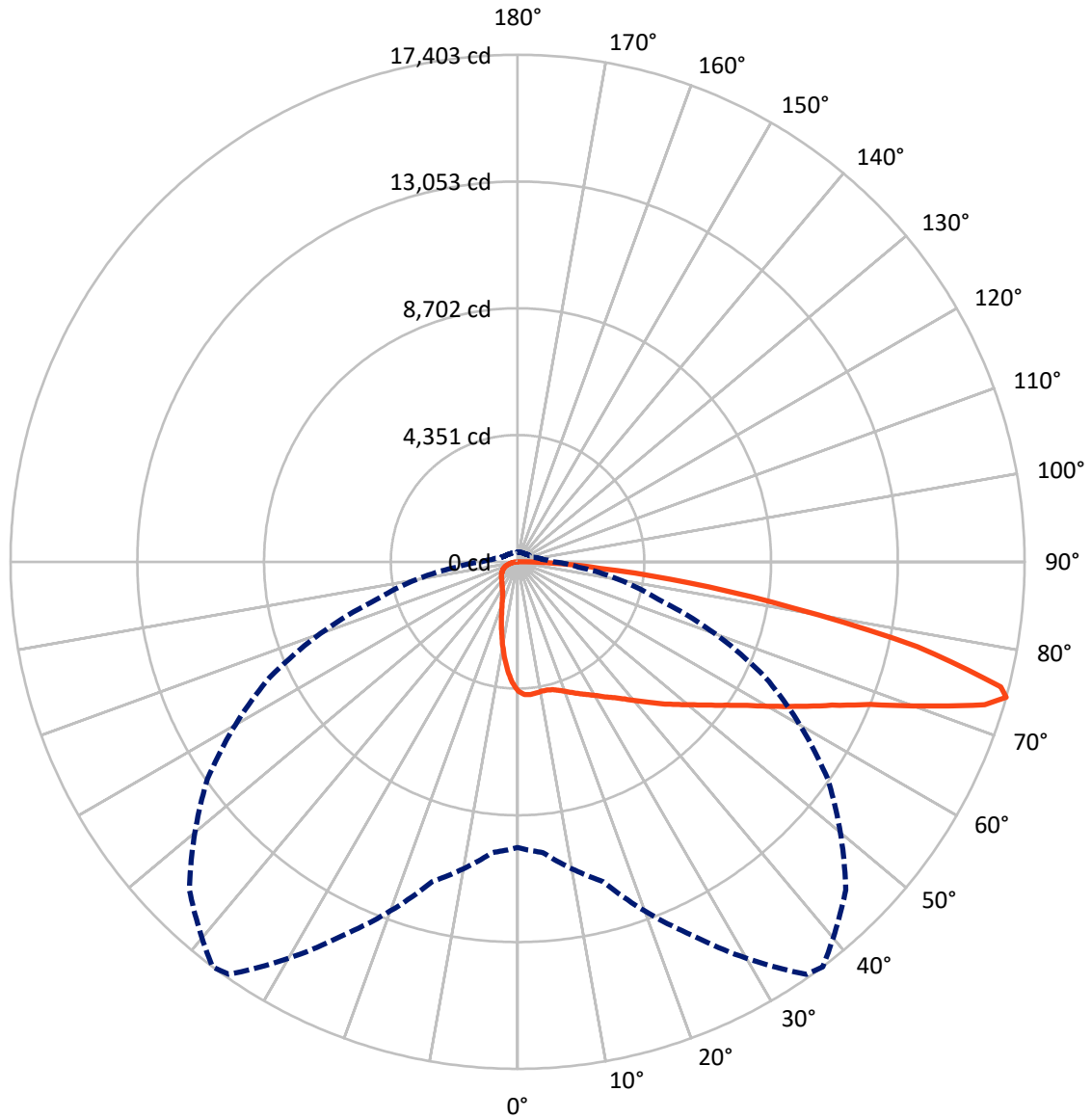
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3475.1	0.0	3475.1
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	21781.0	0.0	21781.0
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	25256.1	0.0	25256.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	391.9	1.6
10°-20°	1004.5	4.0
20°-30°	1547.7	6.1
30°-40°	2250.6	8.9
40°-50°	3312.5	13.1
50°-60°	4651.8	18.4
60°-70°	5887.7	23.3
70°-80°	5184.4	20.5
80°-90°	1025.1	4.1
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°	25256.1	100.0
0°-180°	25256.1	100.0

**Coefficient of Utilization**

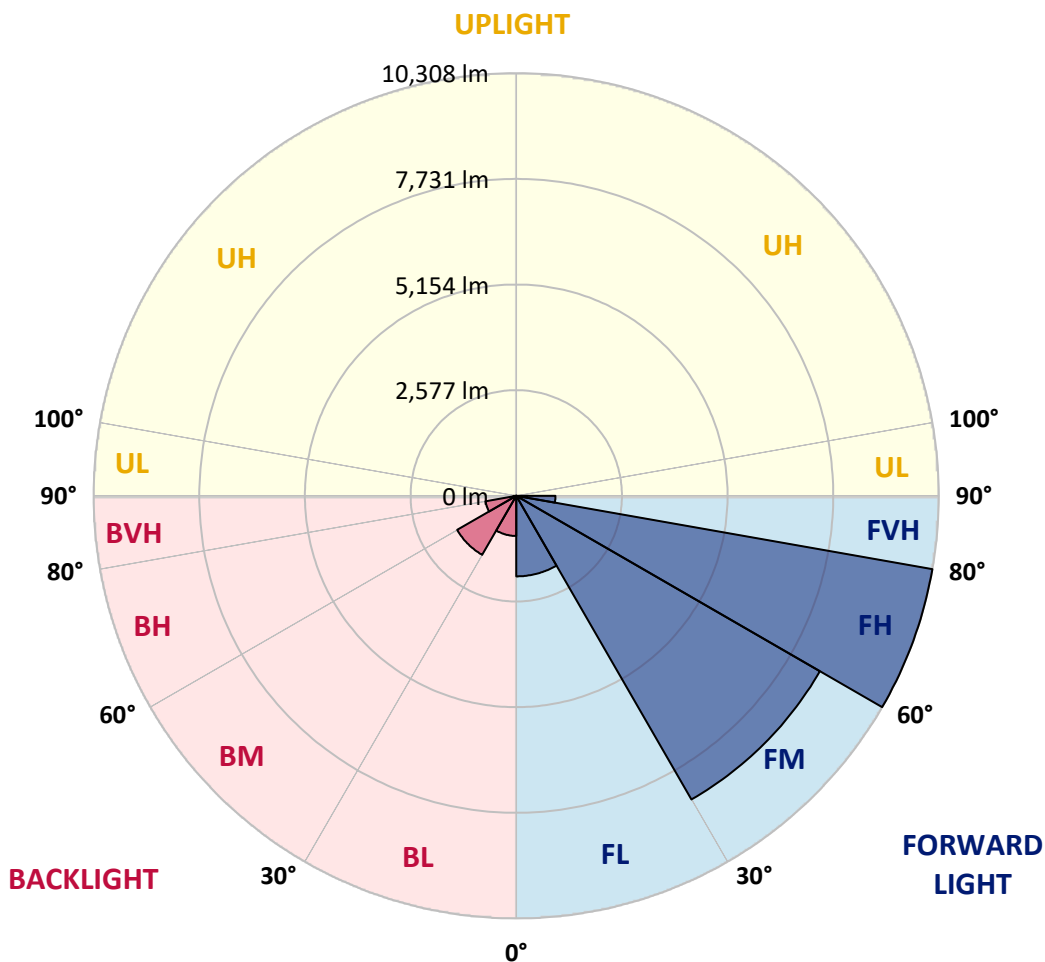


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1965.2	7.8			
FM (30°-60°)	8551.9	33.9			
FH (60°-80°)	10308.3	40.8			G4/12000
FVH (80°-90°)	955.6	3.8			G5
BL (0°-30°)	978.8	3.9	B2/1000		
BM (30°-60°)	1663.0	6.6	B2/2500		
BH (60°-80°)	763.9	3.0	B2/1000		G2/1000
BVH (80°-90°)	69.4	0.3			G1/100
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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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	4450.0	4450.0	4450.0	4450.0	4450.0	4450.0	4450.0	4450.0	4450.0	4450.0	4450.0
2.5°	4602.1	4603.1	4602.1	4595.0	4578.2	4563.9	4552.4	4535.4	4498.1	4469.6	4426.9
5°	4645.7	4640.4	4636.9	4623.6	4596.8	4580.8	4558.5	4526.6	4465.2	4408.2	4338.9
7.5°	4625.3	4619.1	4611.1	4595.0	4564.8	4551.4	4520.3	4478.5	4404.6	4329.9	4230.3
10°	4562.2	4560.4	4556.8	4553.2	4527.4	4516.8	4488.3	4443.8	4370.8	4280.1	4163.6
12.5°	4491.8	4496.3	4510.6	4529.2	4517.6	4512.3	4494.5	4464.3	4389.5	4291.6	4151.1
15°	4447.4	4459.8	4498.1	4547.0	4556.8	4555.0	4550.5	4531.0	4451.8	4343.2	4179.6
17.5°	4432.2	4452.7	4525.6	4606.6	4635.1	4641.3	4643.1	4609.3	4521.2	4406.4	4208.9
20°	4459.8	4485.6	4592.3	4703.6	4748.9	4752.5	4744.5	4685.8	4587.0	4460.7	4224.9
22.5°	4543.4	4566.5	4700.0	4825.4	4877.0	4882.4	4858.4	4769.4	4656.4	4524.8	4247.2
25°	4704.5	4732.9	4866.4	4991.8	5018.5	5019.4	4984.7	4874.4	4747.2	4614.6	4295.3
27.5°	4914.5	4942.9	5063.0	5185.7	5171.6	5163.6	5116.3	5006.0	4865.5	4738.3	4380.6
30°	5148.4	5179.5	5293.4	5380.6	5346.8	5330.8	5292.5	5150.2	5030.1	4907.3	4511.4
32.5°	5390.4	5418.9	5518.5	5578.1	5535.4	5528.3	5470.4	5340.6	5244.5	5165.3	4723.1
35°	5638.6	5659.1	5757.0	5790.8	5733.8	5732.0	5716.0	5596.8	5536.3	5573.6	5031.0
37.5°	5892.1	5897.5	5981.1	5982.9	5966.0	5973.1	5990.0	5915.3	5932.2	6048.7	5431.3
40°	6118.1	6132.4	6192.8	6211.6	6240.9	6265.8	6350.4	6301.4	6432.1	6638.6	5929.5
42.5°	6285.3	6312.9	6409.9	6458.0	6553.2	6592.3	6711.5	6756.9	7020.2	7329.8	6522.0
45°	6426.8	6469.5	6625.3	6724.0	6885.0	6953.5	7124.3	7276.4	7684.8	8079.8	7145.7
47.5°	6579.9	6634.1	6829.0	7017.5	7236.4	7313.9	7624.3	7852.0	8393.9	8834.2	7733.7
50°	6805.0	6846.8	7037.1	7333.4	7606.6	7706.1	8135.9	8462.4	9114.4	9553.0	8243.5
52.5°	7119.0	7103.0	7264.0	7679.5	8046.0	8168.7	8682.1	9111.8	9844.9	10203.4	8674.1
55°	7434.8	7408.1	7521.1	8041.6	8558.4	8687.4	9283.5	9763.9	10539.7	10788.8	9004.2
57.5°	7786.2	7735.5	7830.7	8449.9	9142.0	9295.9	9956.9	10457.0	11222.9	11262.0	9214.1
60°	8148.3	8079.8	8186.5	8956.1	9883.2	10064.6	10745.2	11133.1	11867.1	11641.1	9281.8
62.5°	8465.1	8417.0	8581.6	9521.1	10718.5	10917.8	11519.1	11851.9	12502.3	11798.5	9038.0
65°	8741.7	8749.7	9034.4	10156.3	11649.9	11862.6	12407.1	12738.0	13002.3	11705.1	8467.7
67.5°	9071.8	9117.1	9602.9	10992.5	12822.6	13055.6	13698.9	13704.2	13281.6	11157.1	7345.0
70°	9553.0	9646.5	10384.9	12152.6	14489.8	14810.0	15306.4	14271.8	12889.3	9671.4	5779.1
72.5°	9980.1	10154.4	11216.7	13480.0	16521.6	16764.6	16246.7	13944.3	11249.6	7248.0	3600.4
74°	9806.6	10022.8	11368.0	14133.9	17286.8	17403.4	15929.2	12988.8	9379.6	5019.4	2092.4
75°	9432.9	9667.8	11147.3	14127.7	17189.8	17124.9	15162.3	11897.3	7724.9	3423.3	1392.3
77.5°	7612.7	7861.0	9392.9	12108.2	14094.7	14033.3	11647.3	7981.0	3383.4	1122.7	707.2
80°	4426.0	4615.5	5830.7	7689.3	9504.1	9615.3	7659.9	3949.2	1330.9	630.8	479.6
82.5°	1966.1	2096.9	2816.6	3925.2	5735.5	5878.8	4011.4	2069.3	822.0	383.4	288.2
85°	1290.0	1387.0	1709.9	1869.2	2731.2	2829.1	1963.4	1611.1	542.7	210.8	211.7
87.5°	927.9	1021.3	1270.4	1109.4	1253.5	1186.8	1068.5	1491.0	218.0	120.1	71.2
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°	4450.0	4450.0	4450.0	4450.0	4450.0	4450.0	4450.0	4450.0	4450.0	4450.0	4450.0
2.5°	4408.2	4394.0	4362.0	4301.4	4267.6	4239.2	4192.1	4164.5	4152.0	4151.1	4156.5
5°	4298.8	4265.8	4183.1	4081.7	4000.7	3926.9	3835.3	3780.1	3741.0	3717.8	3724.0
7.5°	4171.6	4120.0	3990.1	3828.2	3698.2	3555.1	3413.6	3329.1	3263.2	3214.3	3223.2
10°	4084.4	4013.2	3823.7	3590.7	3374.4	3166.2	2971.5	2854.9	2762.3	2691.1	2696.6
12.5°	4055.0	3959.0	3696.5	3385.2	3081.7	2797.1	2542.7	2363.8	2268.6	2187.6	2193.9
15°	4059.5	3930.5	3589.7	3200.1	2818.4	2459.8	2151.1	1942.1	1813.1	1757.1	1757.9
17.5°	4063.0	3897.6	3477.7	3001.7	2557.8	2145.0	1809.5	1597.8	1475.9	1424.3	1425.2
20°	4051.5	3844.2	3338.9	2774.0	2285.6	1855.8	1531.1	1351.4	1258.9	1218.8	1218.8
22.5°	4036.3	3781.1	3182.3	2545.3	2016.8	1605.0	1331.8	1194.8	1141.4	1114.7	1113.9
25°	4043.5	3733.8	3022.1	2310.4	1769.5	1404.8	1199.3	1108.5	1073.0	1056.0	1055.2
27.5°	4081.7	3711.7	2874.5	2076.4	1553.4	1254.4	1110.3	1046.2	1023.1	1012.4	1012.4
30°	4151.1	3711.7	2720.6	1877.2	1373.7	1143.2	1041.7	998.2	982.1	975.1	975.1
32.5°	4272.1	3732.1	2572.0	1679.7	1230.4	1056.0	984.8	955.5	943.0	939.5	939.5
35°	4480.3	3801.5	2427.0	1492.8	1114.7	984.8	930.6	913.7	904.8	903.9	906.6
37.5°	4773.0	3943.0	2290.9	1354.9	1032.9	927.0	885.2	871.8	866.5	871.0	874.5
40°	5141.3	4135.1	2167.2	1230.4	970.6	880.8	843.4	834.5	831.8	838.0	843.4
42.5°	5586.1	4394.9	2065.8	1140.5	922.6	841.7	807.8	797.1	794.4	801.6	808.7
45°	6067.4	4674.2	1994.6	1073.8	885.2	812.2	776.6	765.1	759.8	763.3	771.3
47.5°	6505.1	4938.4	1966.1	1026.7	849.6	787.3	749.1	734.8	726.0	724.2	730.4
50°	6874.4	5135.1	1979.4	998.2	821.2	759.8	722.4	706.4	693.1	685.1	689.4
52.5°	7143.0	5258.7	1991.9	985.8	798.9	729.5	693.1	677.9	660.1	646.8	646.8
55°	7337.8	5287.2	1964.4	976.0	782.0	696.6	660.1	645.8	628.0	613.0	611.2
57.5°	7414.4	5207.2	1862.1	961.7	770.5	665.5	625.4	614.7	599.6	581.8	580.9
60°	7311.2	4959.8	1664.5	931.5	755.3	639.7	590.7	583.6	576.5	559.6	558.7
62.5°	6896.5	4417.1	1409.2	870.1	725.0	612.1	558.7	562.3	563.1	551.6	549.8
65°	6144.8	3671.6	1160.1	790.0	679.7	579.1	525.8	542.7	552.5	550.7	548.0
67.5°	5052.3	2857.5	983.1	705.5	620.1	533.8	490.2	509.7	517.8	524.0	522.2
70°	3749.9	2015.0	813.1	616.5	548.0	480.4	444.0	453.8	448.4	455.5	458.1
72.5°	2090.7	1209.1	662.8	527.5	473.3	418.2	392.4	390.6	379.0	379.0	379.0
74°	1254.4	887.0	582.7	472.4	428.0	377.2	355.0	347.0	336.3	337.2	336.3
75°	1008.9	762.5	534.7	436.0	395.9	353.1	331.0	320.3	312.3	312.3	311.4
77.5°	637.0	579.1	430.6	347.0	316.7	290.9	275.8	261.6	261.6	260.6	259.8
80°	481.3	460.8	335.4	262.4	242.9	223.3	213.5	207.3	207.3	210.0	209.0
82.5°	330.0	347.0	235.8	183.2	173.5	159.2	157.4	158.4	155.7	152.1	151.3
85°	241.1	260.6	159.2	115.7	105.8	97.0	104.1	107.7	103.2	95.2	91.7
87.5°	92.5	170.8	85.4	48.1	44.5	38.3	44.5	46.3	49.8	39.1	40.1
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)