

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: P320113

Luminaire Tested: **GLEON-SA9A-827-U-SL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P320113  
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-SA9A-827-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 615mA 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: 29103 lumens  
Efficiency: N/A  
Efficacy: 100.4 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

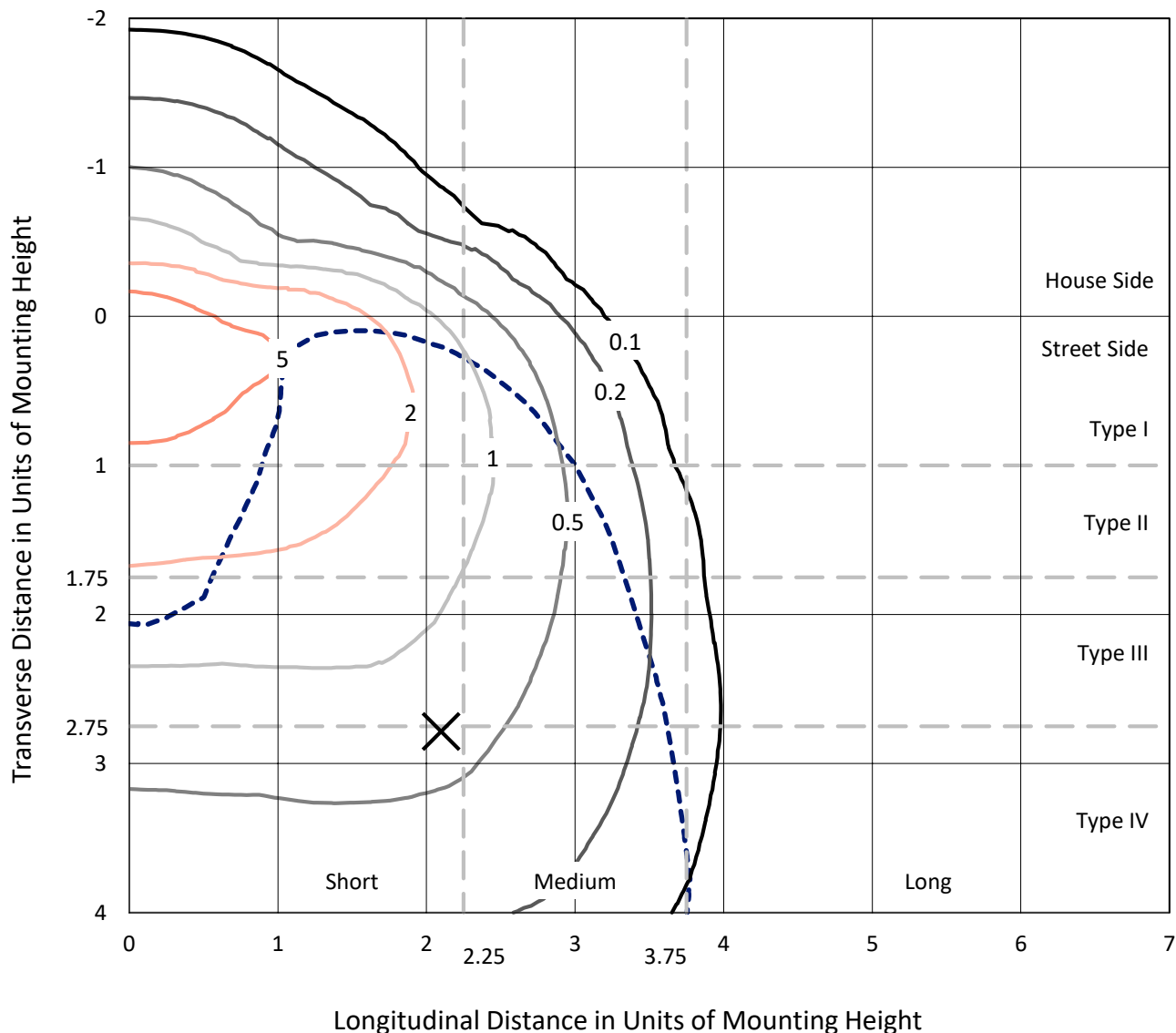
Input Watts (W): 290  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

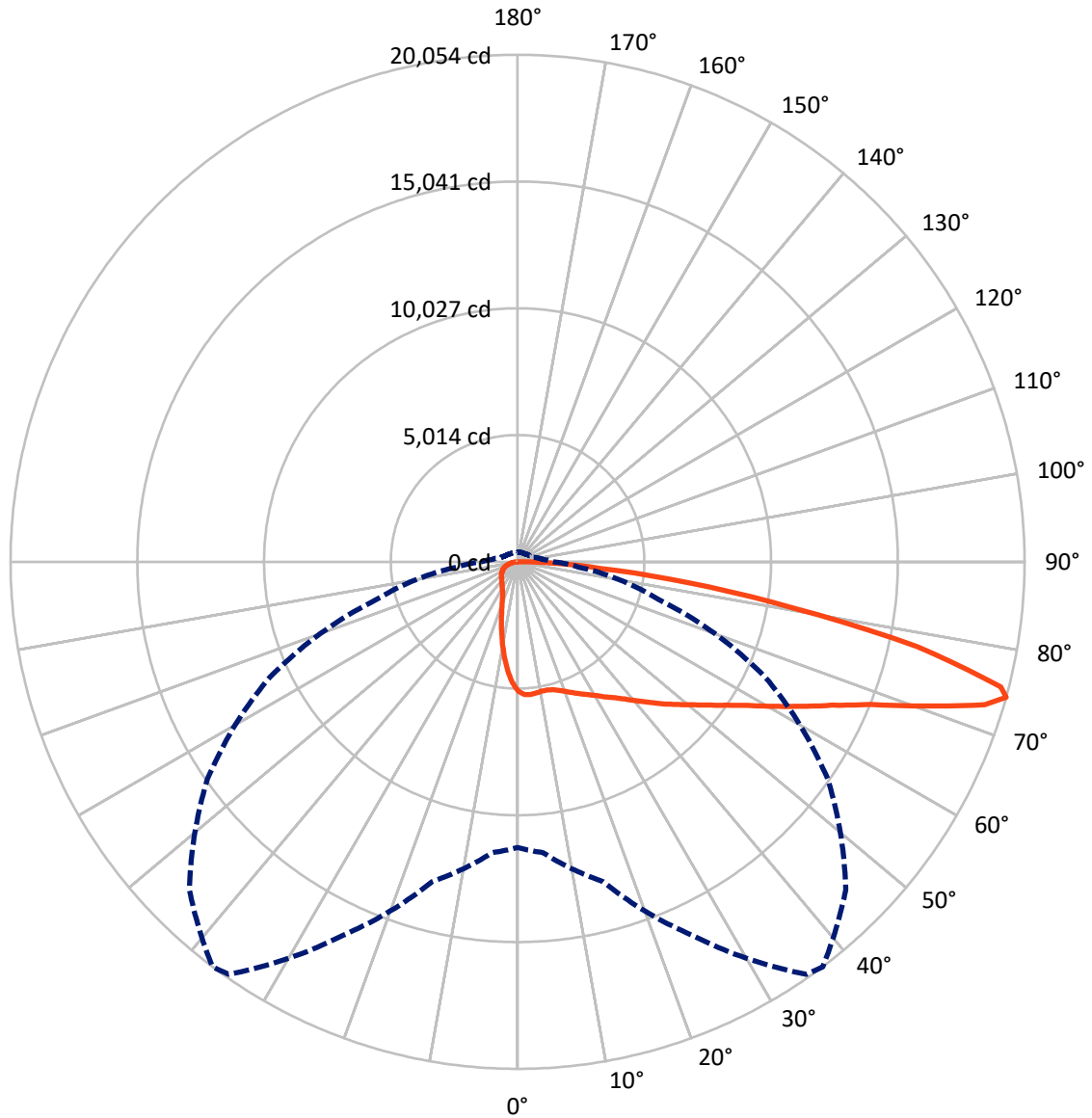
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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	4004.4	0.0	4004.4
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	25098.6	0.0	25098.6
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	29103.0	0.0	29103.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	451.6	1.6
10°-20°	1157.5	4.0
20°-30°	1783.4	6.1
30°-40°	2593.4	8.9
40°-50°	3817.0	13.1
50°-60°	5360.3	18.4
60°-70°	6784.5	23.3
70°-80°	5974.0	20.5
80°-90°	1181.2	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°	29103.0	100.0
0°-180°	29103.0	100.0

**Coefficient of Utilization**

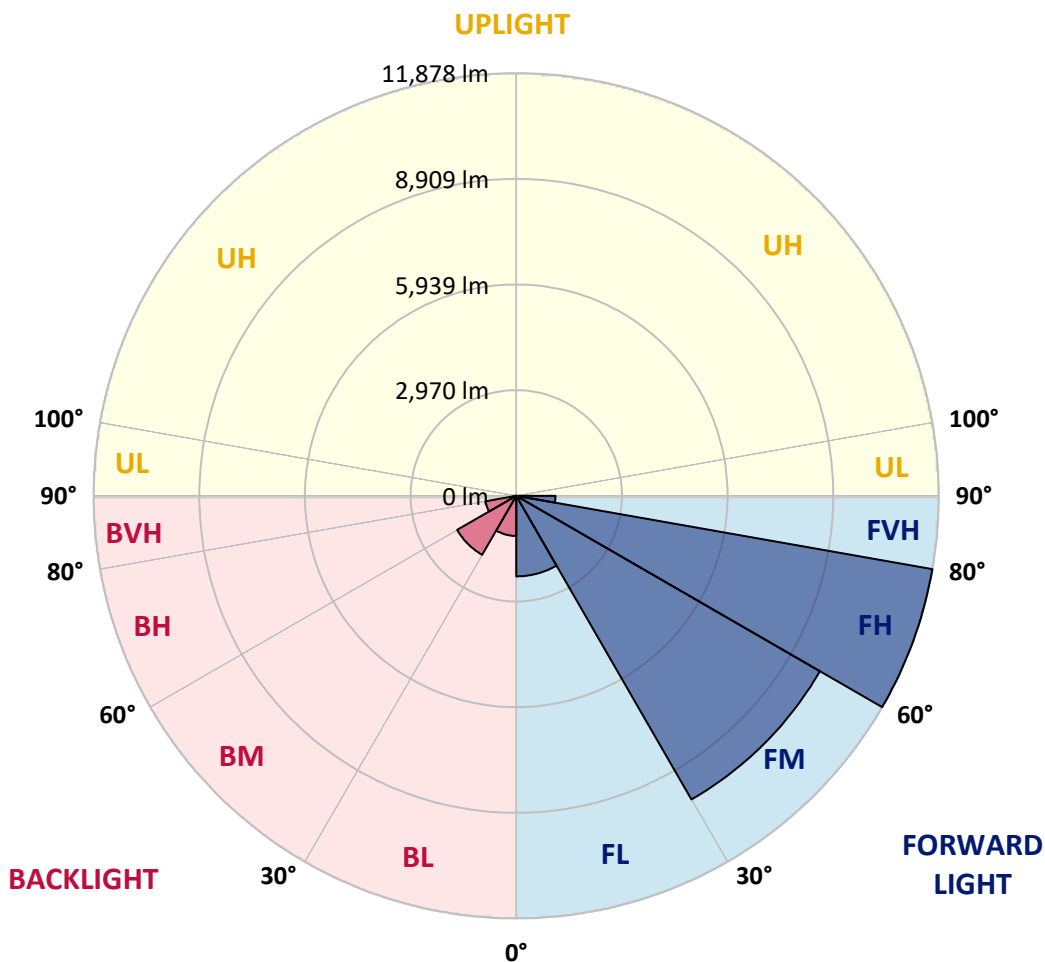


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2264.6	7.8			
FM (30°-60°)	9854.5	33.9			
FH (60°-80°)	11878.4	40.8			G4/12000
FVH (80°-90°)	1101.2	3.8			G5
BL (0°-30°)	1127.9	3.9	B3/2500		
BM (30°-60°)	1916.2	6.6	B2/2500		
BH (60°-80°)	880.2	3.0	B2/1000		G2/1000
BVH (80°-90°)	80.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	5127.8	5127.8	5127.8	5127.8	5127.8	5127.8	5127.8	5127.8	5127.8	5127.8	5127.8
2.5°	5303.1	5304.2	5303.1	5294.9	5275.5	5259.1	5245.7	5226.3	5183.2	5150.4	5101.2
5°	5353.4	5347.2	5343.1	5327.7	5297.0	5278.5	5252.9	5216.0	5145.3	5079.7	4999.7
7.5°	5329.8	5322.6	5313.4	5294.9	5260.1	5244.7	5208.8	5160.6	5075.6	4989.4	4874.6
10°	5257.0	5255.0	5250.9	5246.8	5217.0	5204.7	5171.9	5120.7	5036.6	4932.0	4797.7
12.5°	5176.0	5181.1	5197.5	5219.1	5205.7	5199.6	5179.1	5144.2	5058.1	4945.4	4783.4
15°	5124.8	5139.1	5183.2	5239.6	5250.9	5248.8	5243.7	5221.1	5129.9	5004.8	4816.2
17.5°	5107.3	5130.9	5215.0	5308.3	5341.1	5348.2	5350.3	5311.3	5209.8	5077.6	4850.0
20°	5139.1	5168.8	5291.9	5420.0	5472.3	5476.4	5467.2	5399.5	5285.7	5140.1	4868.5
22.5°	5235.5	5262.1	5415.9	5560.5	5619.9	5626.1	5598.4	5495.9	5365.7	5213.9	4894.1
25°	5421.0	5453.8	5607.6	5752.2	5782.9	5783.9	5744.0	5616.8	5470.2	5317.5	4949.5
27.5°	5663.0	5695.8	5834.2	5975.6	5959.2	5950.0	5895.7	5768.6	5606.6	5460.0	5047.9
30°	5932.6	5968.5	6099.7	6200.2	6161.2	6142.7	6098.7	5934.6	5796.2	5654.8	5198.6
32.5°	6211.4	6244.2	6359.0	6427.7	6378.5	6370.3	6303.7	6154.0	6043.3	5952.1	5442.6
35°	6497.4	6521.0	6633.8	6672.7	6607.1	6605.1	6586.6	6449.3	6379.6	6422.6	5797.3
37.5°	6789.6	6795.8	6892.1	6894.2	6874.7	6882.9	6902.4	6816.3	6835.7	6970.0	6258.6
40°	7050.0	7066.4	7136.1	7157.6	7191.5	7220.2	7317.6	7261.2	7411.9	7649.7	6832.7
42.5°	7242.7	7274.5	7386.3	7441.6	7551.3	7596.4	7733.8	7786.1	8089.5	8446.3	7515.4
45°	7405.7	7454.9	7634.3	7748.1	7933.7	8012.6	8209.5	8384.8	8855.3	9310.5	8234.1
47.5°	7582.1	7644.6	7869.1	8086.4	8338.6	8427.8	8785.6	9048.0	9672.4	10179.8	8911.7
50°	7841.4	7889.6	8109.0	8450.4	8765.1	8879.9	9375.1	9751.3	10502.7	11008.1	9499.1
52.5°	8203.3	8184.9	8370.4	8849.2	9271.5	9413.0	10004.5	10499.7	11344.4	11757.5	9995.3
55°	8567.2	8536.5	8666.7	9266.4	9862.0	10010.7	10697.5	11251.1	12145.0	12432.1	10375.6
57.5°	8972.2	8913.7	9023.4	9736.9	10534.5	10711.9	11473.6	12049.7	12932.4	12977.5	10617.6
60°	9389.4	9310.5	9433.5	10320.3	11388.5	11597.6	12381.8	12828.8	13674.6	13414.2	10695.5
62.5°	9754.4	9699.0	9888.7	10971.2	12351.1	12580.7	13273.7	13657.1	14406.5	13595.6	10414.6
65°	10073.2	10082.4	10410.5	11703.2	13424.4	13669.4	14296.8	14678.2	14982.7	13488.0	9757.4
67.5°	10453.5	10505.8	11065.5	12666.8	14775.6	15044.2	15785.4	15791.5	15304.6	12856.5	8463.7
70°	11008.1	11115.8	11966.7	14003.6	16696.7	17065.8	17637.8	16445.6	14852.5	11144.5	6659.4
72.5°	11500.2	11701.1	12925.2	15533.2	19038.2	19318.1	18721.4	16068.3	12963.1	8352.0	4148.8
74°	11300.3	11549.4	13099.5	16286.7	19919.8	20054.1	18355.4	14967.3	10808.2	5783.9	2411.2
75°	10869.7	11140.4	12845.2	16279.5	19808.1	19733.2	17471.8	13709.4	8901.4	3944.8	1604.4
77.5°	8772.3	9058.3	10823.6	13952.4	16241.6	16170.8	13421.4	9196.7	3898.7	1293.7	815.0
80°	5100.2	5318.5	6718.9	8860.4	10951.8	11079.9	8826.6	4550.7	1533.6	726.8	552.6
82.5°	2265.6	2416.3	3245.6	4523.0	6609.2	6774.2	4622.4	2384.5	947.2	441.8	332.2
85°	1486.5	1598.2	1970.4	2153.9	3147.2	3260.0	2262.5	1856.6	625.3	243.0	244.0
87.5°	1069.2	1176.9	1463.9	1278.4	1444.4	1367.6	1231.2	1718.2	251.2	138.4	82.0
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°	5127.8	5127.8	5127.8	5127.8	5127.8	5127.8	5127.8	5127.8	5127.8	5127.8	5127.8
2.5°	5079.7	5063.3	5026.3	4956.6	4917.7	4884.9	4830.5	4798.8	4784.4	4783.4	4789.5
5°	4953.6	4915.6	4820.3	4703.4	4610.1	4525.0	4419.5	4355.9	4310.8	4284.1	4291.3
7.5°	4807.0	4747.5	4597.8	4411.3	4261.6	4096.5	3933.5	3836.1	3760.3	3703.9	3714.1
10°	4706.5	4624.5	4406.1	4137.5	3888.4	3648.5	3424.0	3289.7	3183.1	3101.1	3107.3
12.5°	4672.7	4561.9	4259.5	3900.7	3551.1	3223.1	2929.9	2723.8	2614.2	2520.9	2528.0
15°	4677.8	4529.1	4136.5	3687.5	3247.7	2834.6	2478.8	2237.9	2089.3	2024.7	2025.7
17.5°	4681.9	4491.2	4007.3	3458.9	2947.3	2471.7	2085.2	1841.2	1700.7	1641.3	1642.3
20°	4668.6	4429.7	3847.4	3196.4	2633.6	2138.5	1764.3	1557.2	1450.6	1404.5	1404.5
22.5°	4651.1	4356.9	3667.0	2933.0	2324.0	1849.4	1534.7	1376.8	1315.3	1284.5	1283.5
25°	4659.3	4302.6	3482.5	2662.3	2039.0	1618.7	1381.9	1277.3	1236.3	1216.9	1215.8
27.5°	4703.4	4277.0	3312.3	2392.7	1789.9	1445.5	1279.4	1205.6	1178.9	1166.6	1166.6
30°	4783.4	4277.0	3134.9	2163.1	1582.8	1317.3	1200.5	1150.2	1131.8	1123.6	1123.6
32.5°	4922.8	4300.5	2963.7	1935.5	1417.8	1216.9	1134.8	1101.0	1086.7	1082.6	1082.6
35°	5162.7	4380.5	2796.6	1720.2	1284.5	1134.8	1072.3	1052.8	1042.6	1041.6	1044.6
37.5°	5500.0	4543.5	2639.8	1561.3	1190.2	1068.2	1020.0	1004.7	998.5	1003.6	1007.7
40°	5924.4	4764.9	2497.3	1417.8	1118.4	1014.9	971.8	961.6	958.5	965.7	971.8
42.5°	6437.0	5064.3	2380.4	1314.3	1063.1	969.8	930.8	918.5	915.5	923.7	931.9
45°	6991.6	5386.2	2298.4	1237.4	1020.0	936.0	895.0	881.6	875.5	879.6	888.8
47.5°	7495.9	5690.6	2265.6	1183.0	979.0	907.3	863.2	846.8	836.5	834.5	841.7
50°	7921.4	5917.2	2281.0	1150.2	946.2	875.5	832.4	814.0	798.6	789.4	794.5
52.5°	8231.0	6059.7	2295.3	1135.9	920.6	840.6	798.6	781.2	760.7	745.3	745.3
55°	8455.5	6092.5	2263.5	1124.6	901.1	802.7	760.7	744.3	723.8	706.3	704.3
57.5°	8543.7	6000.2	2145.7	1108.2	887.8	766.8	720.7	708.4	691.0	670.5	669.4
60°	8424.7	5715.3	1918.1	1073.3	870.4	737.1	680.7	672.5	664.3	644.8	643.8
62.5°	7947.0	5089.9	1623.8	1002.6	835.5	705.3	643.8	647.9	648.9	635.6	633.5
65°	7080.8	4230.8	1336.8	910.3	783.2	667.4	605.9	625.3	636.6	634.6	631.5
67.5°	5821.9	3292.8	1132.8	812.9	714.5	615.1	564.9	587.4	596.6	603.8	601.8
70°	4321.0	2322.0	937.0	710.4	631.5	553.6	511.6	522.8	516.7	524.9	528.0
72.5°	2409.1	1393.2	763.7	607.9	545.4	481.8	452.1	450.0	436.7	436.7	436.7
74°	1445.5	1022.1	671.5	544.4	493.1	434.7	409.0	399.8	387.5	388.5	387.5
75°	1162.5	878.6	616.1	502.3	456.2	407.0	381.4	369.1	359.8	359.8	358.8
77.5°	734.0	667.4	496.2	399.8	365.0	335.2	317.8	301.4	301.4	300.4	299.3
80°	554.6	531.0	386.5	302.4	279.9	257.3	246.0	238.9	238.9	241.9	240.9
82.5°	380.3	399.8	271.7	211.2	199.9	183.5	181.5	182.5	179.4	175.3	174.3
85°	277.8	300.4	183.5	133.3	122.0	111.7	119.9	124.0	118.9	109.7	105.6
87.5°	106.6	196.8	98.4	55.4	51.3	44.1	51.3	53.3	57.4	45.1	46.1
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)