

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: P382609

Luminaire Tested: **GLEON-SA0A-735-U-SL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382609  
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-SA0A-735-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3500K, 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: 40830.7 lumens  
Efficiency: N/A  
Efficacy: 126.4 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

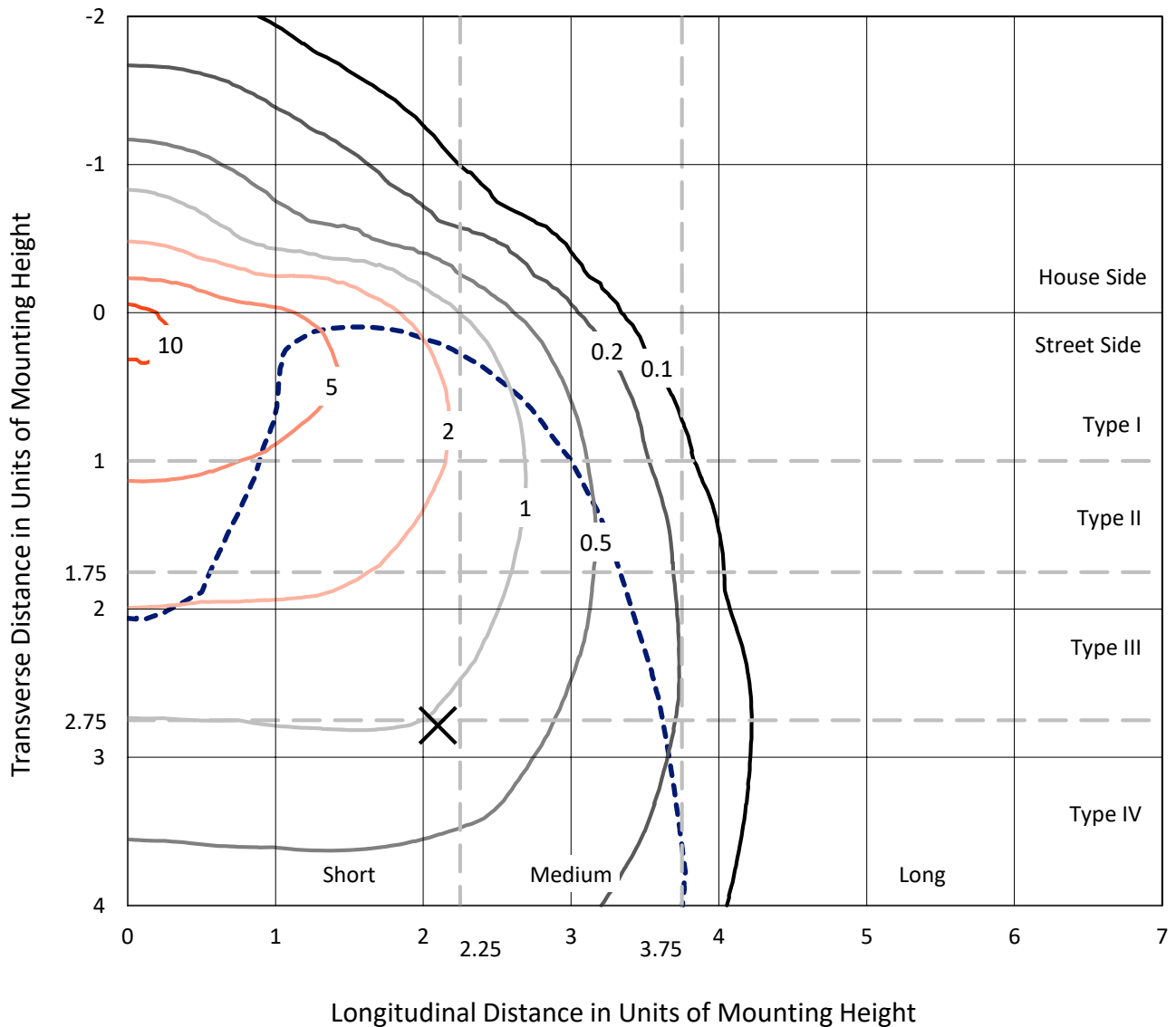
Input Watts (W): 323  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

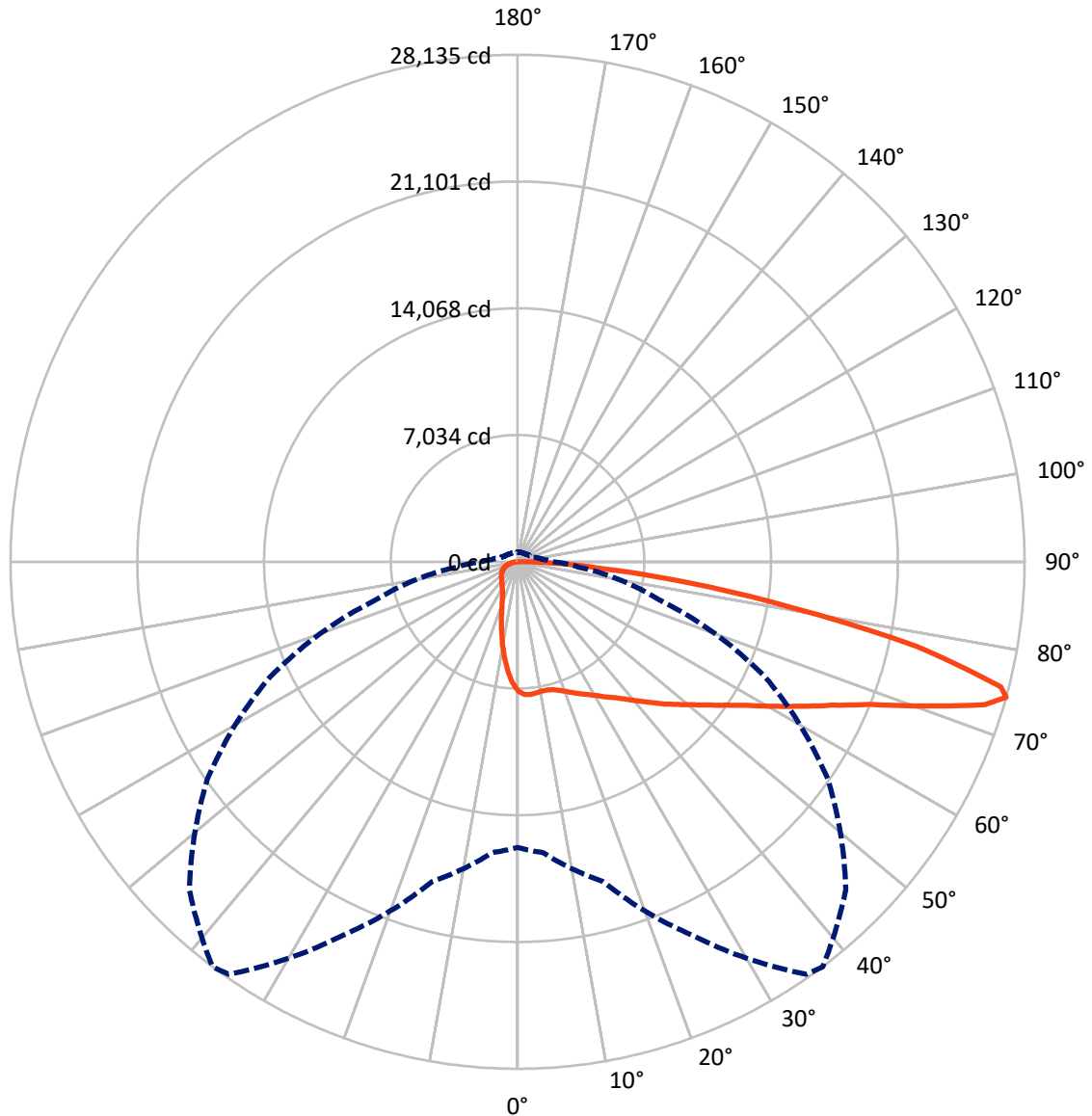
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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	5618.0	0.0	5618.0
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	35212.6	0.0	35212.6
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	40830.7	0.0	40830.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	633.5	1.6
10°-20°	1623.9	4.0
20°-30°	2502.1	6.1
30°-40°	3638.5	8.9
40°-50°	5355.2	13.1
50°-60°	7520.4	18.4
60°-70°	9518.5	23.3
70°-80°	8381.4	20.5
80°-90°	1657.2	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°	40830.7	100.0
0°-180°	40830.7	100.0

**Coefficient of Utilization**



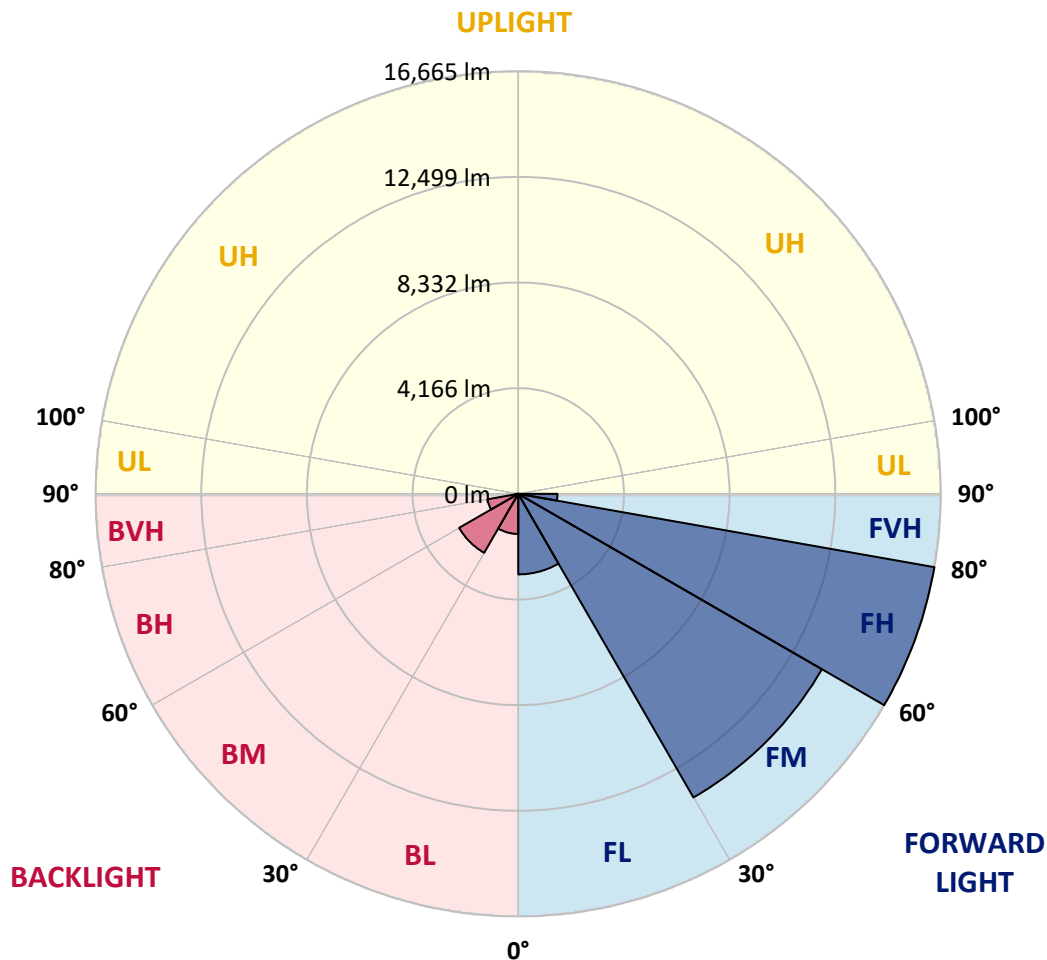
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3177.1	7.8			
FM (30°-60°)	13825.6	33.9			
FH (60°-80°)	16665.0	40.8			G5
FVH (80°-90°)	1545.0	3.8			G5
BL (0°-30°)	1582.5	3.9	B3/2500		
BM (30°-60°)	2688.4	6.6	B3/5000		
BH (60°-80°)	1234.9	3.0	B3/2500		G3/2500
BVH (80°-90°)	112.2	0.3			G2/225
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°	7194.2	7194.2	7194.2	7194.2	7194.2	7194.2	7194.2	7194.2	7194.2	7194.2	7194.2
2.5°	7440.2	7441.6	7440.2	7428.6	7401.3	7378.3	7359.6	7332.3	7271.8	7225.8	7156.8
5°	7510.6	7502.0	7496.3	7474.6	7431.5	7405.6	7369.7	7317.9	7218.7	7126.6	7014.5
7.5°	7477.5	7467.5	7454.5	7428.6	7379.7	7358.2	7307.8	7240.3	7120.8	7000.0	6839.0
10°	7375.4	7372.5	7366.8	7361.1	7319.4	7302.0	7256.0	7184.1	7066.2	6919.5	6731.1
12.5°	7261.8	7269.0	7292.0	7322.2	7303.5	7294.9	7266.1	7217.3	7096.4	6938.2	6711.0
15°	7189.9	7210.0	7271.8	7350.9	7366.8	7363.9	7356.7	7325.1	7197.0	7021.6	6757.0
17.5°	7165.5	7198.5	7316.5	7447.4	7493.4	7503.4	7506.3	7451.6	7309.3	7123.7	6804.4
20°	7210.0	7251.7	7424.3	7604.1	7677.4	7683.2	7670.3	7575.3	7415.7	7211.5	6830.3
22.5°	7345.3	7382.6	7598.4	7801.2	7884.5	7893.2	7854.3	7710.5	7527.8	7315.0	6866.3
25°	7605.5	7651.5	7867.3	8070.1	8113.2	8114.7	8058.6	7880.2	7674.6	7460.3	6943.9
27.5°	7945.0	7991.0	8185.1	8383.6	8360.6	8347.7	8271.5	8093.1	7865.9	7660.2	7082.0
30°	8323.3	8373.6	8557.7	8698.6	8644.0	8618.1	8556.3	8326.1	8131.9	7933.4	7293.5
32.5°	8714.4	8760.5	8921.5	9017.9	8948.9	8937.4	8843.9	8633.9	8478.6	8350.6	7635.7
35°	9115.8	9148.8	9307.0	9361.7	9269.6	9266.8	9240.9	9048.1	8950.3	9010.8	8133.4
37.5°	9525.6	9534.3	9669.5	9672.4	9645.0	9656.5	9683.8	9563.0	9590.4	9778.7	8780.6
40°	9891.0	9914.0	10011.8	10042.0	10089.4	10129.7	10266.3	10187.2	10398.7	10732.4	9586.0
42.5°	10161.3	10205.9	10362.7	10440.4	10594.3	10657.6	10850.3	10923.6	11349.3	11849.8	10543.9
45°	10390.0	10459.0	10710.7	10870.4	11130.8	11241.5	11517.7	11763.6	12423.8	13062.3	11552.1
47.5°	10637.4	10725.2	11040.1	11345.0	11698.8	11823.9	12326.0	12694.1	13570.0	14282.0	12502.9
50°	11001.3	11068.9	11376.7	11855.6	12297.2	12458.2	13152.9	13680.8	14735.0	15444.1	13327.0
52.5°	11509.0	11483.1	11743.5	12415.1	13007.7	13206.2	14036.0	14730.7	15915.9	16495.5	14023.1
55°	12019.6	11976.4	12159.1	13000.5	13836.1	14044.7	15008.3	15785.0	17039.1	17441.8	14556.6
57.5°	12587.7	12505.7	12659.6	13660.7	14779.7	15028.5	16097.0	16905.4	18143.8	18207.0	14896.1
60°	13173.1	13062.3	13235.0	14479.0	15977.7	16271.1	17371.4	17998.4	19185.0	18819.7	15005.5
62.5°	13685.1	13607.4	13873.5	15392.3	17328.2	17650.4	18622.7	19160.5	20212.0	19074.3	14611.3
65°	14132.4	14145.4	14605.5	16419.3	18834.1	19177.9	20058.1	20593.1	21020.3	18923.3	13689.4
67.5°	14666.0	14739.3	15524.6	17771.2	20729.7	21106.5	22146.4	22155.1	21471.9	18037.3	11874.3
70°	15444.1	15595.1	16788.9	19646.7	23425.1	23942.8	24745.4	23072.7	20837.6	15635.4	9343.0
72.5°	16134.5	16416.4	18133.7	21792.6	26710.0	27102.6	26265.6	22543.4	18186.9	11717.6	5820.7
74°	15854.0	16203.5	18378.1	22849.7	27946.9	28135.3	25752.2	20998.7	15163.6	8114.7	3382.8
75°	15249.9	15629.6	18021.4	22839.7	27790.2	27685.1	24512.4	19233.9	12488.4	5534.4	2250.9
77.5°	12307.2	12708.5	15185.3	19574.8	22786.4	22687.2	18829.7	12902.7	5469.8	1815.1	1143.4
80°	7155.4	7461.7	9426.4	12430.9	15364.9	15544.7	12383.4	6384.5	2151.7	1019.8	775.2
82.5°	3178.5	3390.0	4553.6	6345.6	9272.5	9504.0	6485.2	3345.4	1328.9	619.9	466.0
85°	2085.5	2242.2	2764.4	3021.8	4415.4	4573.7	3174.2	2604.7	877.3	340.9	342.3
87.5°	1500.1	1651.2	2053.9	1793.5	2026.5	1918.6	1727.4	2410.6	352.4	194.1	115.0
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°	7194.2	7194.2	7194.2	7194.2	7194.2	7194.2	7194.2	7194.2	7194.2	7194.2	7194.2
2.5°	7126.6	7103.6	7051.8	6954.0	6899.3	6853.3	6777.1	6732.5	6712.4	6711.0	6719.5
5°	6949.7	6896.5	6762.8	6598.8	6467.9	6348.5	6200.4	6111.2	6047.9	6010.5	6020.6
7.5°	6744.0	6660.6	6450.6	6188.8	5978.9	5747.3	5518.6	5382.0	5275.5	5196.5	5210.8
10°	6603.1	6488.0	6181.7	5804.8	5455.3	5118.8	4803.8	4615.4	4465.8	4350.8	4359.4
12.5°	6555.6	6400.3	5976.0	5472.6	4982.2	4521.9	4110.5	3821.5	3667.6	3536.7	3546.8
15°	6562.8	6354.3	5803.4	5173.4	4556.4	3976.8	3477.7	3139.7	2931.2	2840.6	2842.1
17.5°	6568.5	6301.1	5622.2	4852.7	4135.0	3467.7	2925.4	2583.1	2386.1	2302.7	2304.1
20°	6549.9	6214.7	5397.9	4484.5	3694.9	3000.2	2475.2	2184.8	2035.2	1970.4	1970.4
22.5°	6525.4	6112.6	5144.7	4114.8	3260.5	2594.6	2153.1	1931.6	1845.3	1802.2	1800.7
25°	6536.9	6036.4	4885.8	3735.1	2860.7	2271.0	1938.7	1792.1	1734.5	1707.2	1705.8
27.5°	6598.8	6000.5	4647.0	3356.9	2511.2	2028.0	1795.0	1691.4	1654.0	1636.7	1636.7
30°	6711.0	6000.5	4398.2	3034.7	2220.7	1848.2	1684.2	1613.7	1587.8	1576.4	1576.4
32.5°	6906.6	6033.5	4158.1	2715.5	1989.1	1707.2	1592.2	1544.7	1524.6	1518.8	1518.8
35°	7243.1	6145.7	3923.6	2413.5	1802.2	1592.2	1504.4	1477.1	1462.7	1461.3	1465.6
37.5°	7716.3	6374.4	3703.6	2190.4	1669.8	1498.7	1431.0	1409.5	1400.9	1408.0	1413.8
40°	8311.7	6685.1	3503.6	1989.1	1569.2	1423.9	1363.5	1349.1	1344.8	1354.8	1363.5
42.5°	9030.9	7105.0	3339.7	1843.8	1491.5	1360.6	1305.9	1288.7	1284.3	1295.9	1307.4
45°	9809.0	7556.6	3224.6	1736.0	1431.0	1313.1	1255.6	1236.9	1228.2	1234.0	1247.0
47.5°	10516.6	7983.8	3178.5	1659.7	1373.6	1272.9	1211.0	1188.0	1173.7	1170.8	1180.8
50°	11113.5	8301.7	3200.1	1613.7	1327.5	1228.2	1167.9	1142.0	1120.4	1107.4	1114.7
52.5°	11547.8	8501.6	3220.3	1593.6	1291.6	1179.3	1120.4	1096.0	1067.2	1045.7	1045.7
55°	11862.8	8547.6	3175.6	1577.8	1264.2	1126.1	1067.2	1044.2	1015.4	991.0	988.1
57.5°	11986.5	8418.2	3010.3	1554.8	1245.6	1075.8	1011.1	993.9	969.4	940.6	939.2
60°	11819.7	8018.3	2691.0	1505.8	1221.1	1034.1	955.0	943.5	932.0	904.6	903.2
62.5°	11149.4	7141.0	2278.2	1406.6	1172.2	989.5	903.2	909.0	910.4	891.8	888.9
65°	9934.1	5935.7	1875.5	1277.2	1098.9	936.3	850.0	877.3	893.2	890.3	886.0
67.5°	8167.9	4619.7	1589.3	1140.6	1002.4	863.0	792.5	824.1	837.1	847.1	844.3
70°	6062.3	3257.7	1314.6	996.8	886.0	776.6	717.7	733.5	724.9	736.4	740.7
72.5°	3379.9	1954.6	1071.5	852.9	765.2	676.0	634.3	631.4	612.7	612.7	612.7
74°	2028.0	1433.9	942.1	763.7	691.8	609.8	573.8	560.9	543.7	545.1	543.7
75°	1631.0	1232.6	864.4	704.7	640.1	570.9	535.1	517.8	504.8	504.8	503.4
77.5°	1029.8	936.3	696.1	560.9	512.0	470.3	445.8	422.8	422.8	421.4	419.9
80°	778.1	745.1	542.3	424.3	392.6	361.0	345.1	335.1	335.1	339.5	338.0
82.5°	533.6	560.9	381.1	296.3	280.5	257.5	254.6	256.0	251.7	245.9	244.5
85°	389.8	421.4	257.5	187.0	171.1	156.8	168.2	174.0	166.8	153.9	148.1
87.5°	149.6	276.1	138.1	77.7	71.9	61.9	71.9	74.8	80.6	63.3	64.7
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)