

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: P299186

Luminaire Tested: **GLNA-AF-06-LED-E1-SL2-7030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299186  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLNA-AF-06-LED-E1-SL2-7030-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V  
Narrow OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27160 lumens  
Efficiency: N/A  
Efficacy: 109.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G4

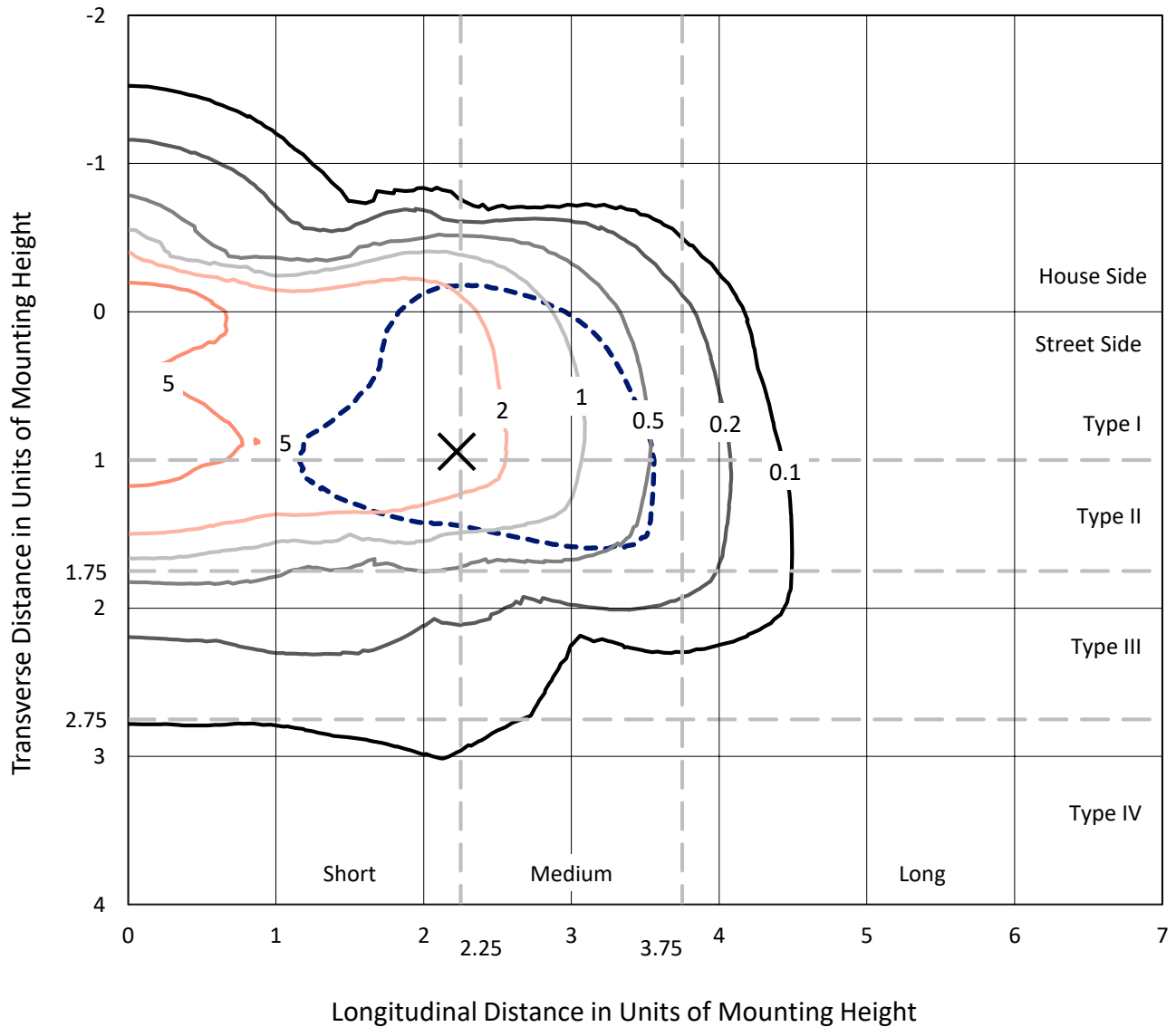
Input Watts (W): 249  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

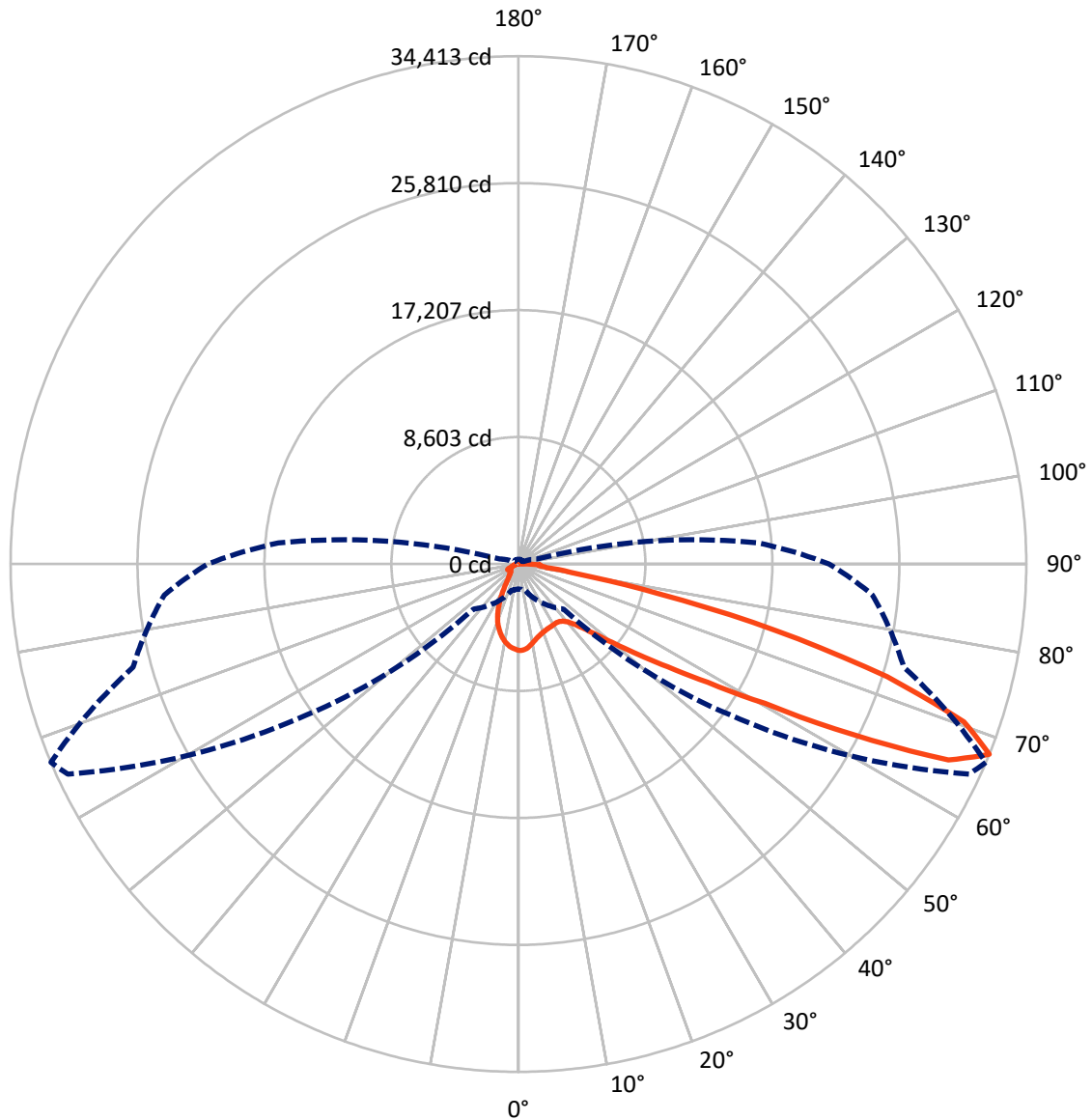
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc  
 Type II - Short - Semi-Cutoff

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CATALOG NUMBER: GLNA-AF-06-LED-E1-SL2-7030-800

### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4500.1	0.0	4500.1
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	22659.9	0.0	22659.9
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	27160.0	0.0	27160.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	499.8	1.8
10°-20°	1156.5	4.3
20°-30°	1567.6	5.8
30°-40°	2228.5	8.2
40°-50°	3728.4	13.7
50°-60°	5898.3	21.7
60°-70°	7513.9	27.7
70°-80°	3935.8	14.5
80°-90°	631.2	2.3
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°	27160.0	100.0
0°-180°	27160.0	100.0



REPORT NUMBER: P299186

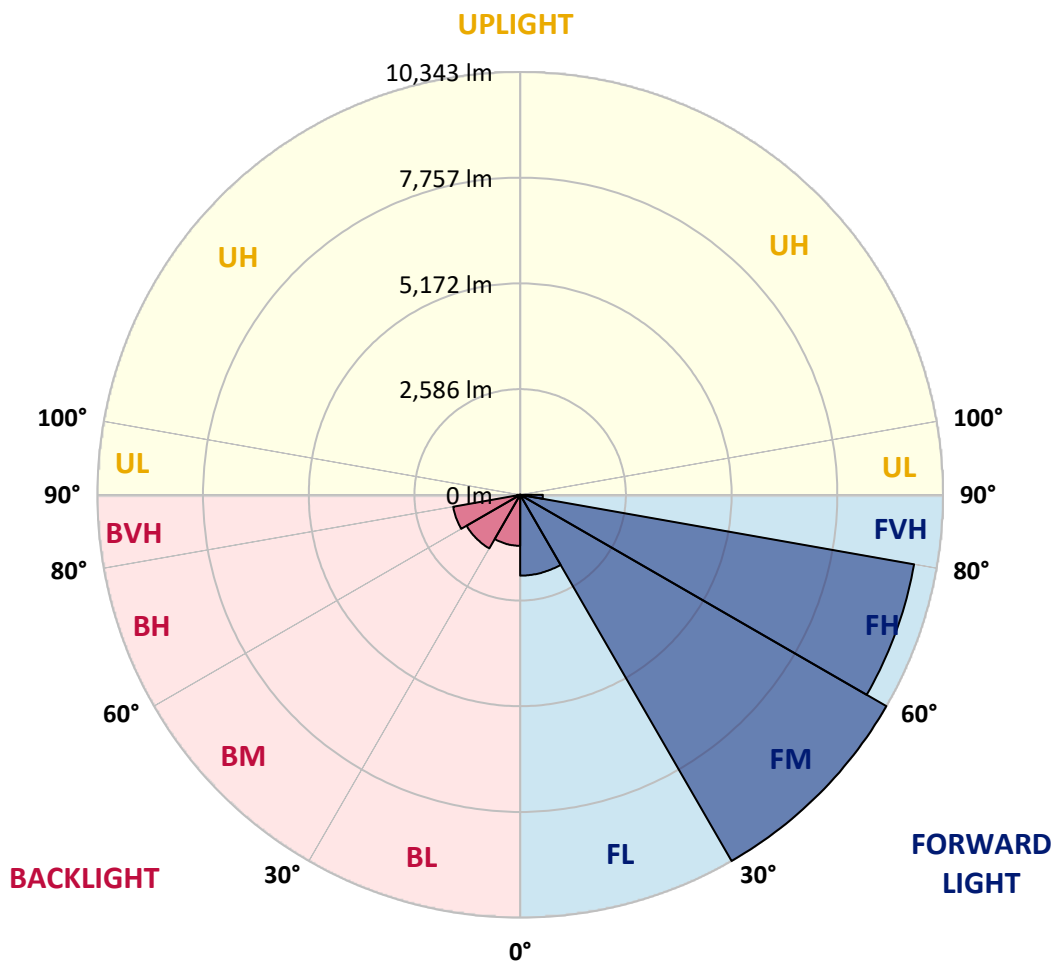
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1976.6	7.3			
FM	(30°-60°)	10343.1	38.1			
FH	(60°-80°)	9785.2	36.0			G4/12000
FVH	(80°-90°)	555.0	2.0			G4/750
BL	(0°-30°)	1247.3	4.6	B3/2500		
BM	(30°-60°)	1512.2	5.6	B2/2500		
BH	(60°-80°)	1664.4	6.1	B3/2500		G3/2500
BVH	(80°-90°)	76.2	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-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	5858.3	5858.3	5858.3	5858.3	5858.3	5858.3	5858.3	5858.3	5858.3	5858.3	5858.3
2.5°	5617.3	5626.6	5656.1	5674.8	5759.2	5795.4	5820.8	5846.3	5850.3	5862.4	5850.3
5°	5027.9	5048.0	5102.9	5164.6	5328.0	5456.5	5591.8	5732.4	5757.9	5849.0	5874.4
7.5°	4571.2	4565.9	4611.4	4685.1	4852.5	5030.6	5267.7	5547.6	5602.5	5807.4	5906.6
10°	4237.7	4233.7	4281.9	4358.3	4517.6	4686.4	4954.3	5337.3	5415.0	5741.8	5937.4
12.5°	3991.3	3992.6	4040.8	4125.2	4287.3	4457.4	4729.3	5133.7	5232.9	5665.5	5969.5
15°	3827.9	3838.6	3877.4	3967.2	4125.2	4295.3	4561.8	4981.1	5092.2	5605.2	6005.7
17.5°	3773.0	3790.4	3803.8	3869.4	4004.7	4174.8	4435.9	4868.6	4986.4	5563.7	6037.8
20°	3823.9	3843.9	3818.5	3841.3	3927.0	4077.0	4336.8	4780.2	4900.7	5516.8	6041.8
22.5°	4042.2	4060.9	3985.9	3920.3	3914.9	4006.0	4255.1	4710.5	4835.1	5482.0	6043.2
25°	4426.6	4438.6	4312.7	4160.0	4011.4	3980.6	4197.5	4662.3	4794.9	5451.2	6017.7
27.5°	4898.0	4907.4	4762.7	4537.7	4239.1	4040.8	4177.4	4634.2	4772.1	5424.4	5974.9
30°	5471.3	5515.5	5321.3	5037.3	4602.0	4219.0	4217.6	4619.4	4746.7	5378.8	5890.5
32.5°	6057.9	6076.7	5942.7	5654.8	5090.9	4532.4	4330.1	4630.1	4740.0	5323.9	5783.3
35°	6652.6	6676.7	6589.6	6357.9	5759.2	4991.8	4549.8	4693.1	4781.5	5305.2	5708.3
37.5°	7422.7	7454.8	7334.3	7066.4	6572.2	5614.6	4915.4	4851.1	4908.7	5358.8	5685.6
40°	8640.2	8625.4	8273.2	7874.1	7461.5	6411.5	5437.8	5119.0	5152.5	5531.5	5755.2
42.5°	10057.2	10021.1	9414.3	8787.5	8439.3	7375.8	6128.9	5583.8	5577.1	5871.7	6000.3
45°	11187.6	11158.2	10611.7	9838.9	9560.3	8474.1	7022.2	6276.2	6226.7	6411.5	6453.0
47.5°	11799.7	11801.1	11486.3	10855.5	10848.8	9869.7	8170.1	7278.1	7192.3	7279.4	7235.2
50°	11585.4	11613.5	11580.1	11379.2	12024.7	11699.3	9668.8	8675.0	8502.2	8587.9	8417.8
52.5°	10548.8	10584.9	10783.1	11091.2	12518.9	13910.5	11870.7	10410.8	10209.9	10179.1	9990.2
55°	8711.2	8755.4	9159.8	9996.9	12107.8	15395.9	15345.0	12623.4	12303.3	12012.7	11932.3
57.5°	6004.3	6078.0	6728.9	7971.8	10777.8	15844.6	19482.3	15777.6	15126.7	14111.4	14130.2
60°	3384.5	3470.3	4237.7	5366.8	8093.7	15357.0	22629.7	20555.1	19180.9	16569.2	16708.5
62.5°	2152.3	2244.8	2827.4	3728.8	4856.5	12731.9	23919.5	27196.9	25451.8	19598.8	19735.4
65°	1742.5	1782.7	2057.2	3077.8	3526.5	7670.5	22940.5	32668.2	32017.3	23444.1	22806.5
67.5°	1701.0	1714.4	1856.3	2583.6	3381.9	4311.4	18298.3	33691.5	34413.4	27034.9	24085.6
70°	1680.9	1727.8	2092.1	2465.8	3238.6	3636.3	10996.1	30886.9	32026.7	27973.8	22383.3
72.5°	815.7	813.0	1052.7	2230.0	3648.4	3771.6	5649.4	24991.0	26134.8	24235.6	18393.4
75°	657.6	601.4	574.6	817.0	3507.8	3894.8	3600.2	17196.0	18023.7	16249.1	11306.8
77.5°	624.1	557.2	510.3	511.6	1482.7	4130.6	3049.7	9517.5	9758.5	7339.7	3097.9
80°	517.0	455.4	421.9	475.5	717.9	3933.7	3297.5	4307.4	3952.4	1802.8	1031.3
82.5°	358.9	326.8	317.4	399.1	574.6	2803.3	3834.6	2314.4	1940.7	902.7	636.2
85°	229.0	195.5	217.0	290.6	447.3	1293.8	3949.8	1804.1	1434.4	573.2	358.9
87.5°	105.8	85.7	107.1	160.7	292.0	446.0	3758.2	2026.4	1477.3	302.7	226.4
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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CATALOG NUMBER: GLNA-AF-06-LED-E1-SL2-7030-800

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5858.3	5858.3	5858.3	5858.3	5858.3	5858.3	5858.3	5858.3	5858.3	5858.3	5858.3
2.5°	5861.0	5835.6	5815.5	5778.0	5736.5	5696.3	5660.1	5614.6	5601.2	5589.1	5607.9
5°	5879.8	5854.3	5780.7	5665.5	5538.2	5419.0	5299.8	5198.0	5135.1	5100.3	5120.4
7.5°	5907.9	5871.7	5719.0	5507.4	5278.4	5069.5	4853.8	4681.0	4553.8	4493.5	4510.9
10°	5933.3	5863.7	5614.6	5297.1	4962.3	4651.6	4311.4	4030.1	3821.2	3711.4	3738.1
12.5°	5944.1	5832.9	5468.6	5034.6	4575.2	4119.9	3618.9	3198.4	2898.4	2788.5	2765.8
15°	5954.8	5798.1	5307.9	4736.0	4107.8	3463.6	2761.7	2258.2	2009.0	1954.1	1942.1
17.5°	5957.4	5737.8	5125.7	4411.8	3560.0	2682.7	1888.5	1568.4	1569.7	1658.1	1668.8
20°	5929.3	5648.1	4904.7	4008.7	2903.7	1855.0	1296.5	1241.6	1443.8	1664.8	1691.6
22.5°	5865.0	5528.9	4654.3	3538.6	2152.3	1221.5	1003.2	1063.4	1324.6	1595.2	1626.0
25°	5783.3	5384.2	4358.3	2993.5	1425.1	873.3	841.1	914.8	1091.6	1272.4	1289.8
27.5°	5672.2	5212.8	4026.1	2369.3	925.5	719.2	740.7	790.2	862.5	942.9	950.9
30°	5528.9	5007.8	3671.2	1727.8	699.1	646.9	677.7	704.5	735.3	780.8	784.9
32.5°	5364.1	4811.0	3306.9	1193.4	620.1	609.4	633.5	646.9	671.0	699.1	701.8
35°	5226.2	4623.5	2929.2	843.8	586.6	581.3	597.4	602.7	625.5	656.3	659.0
37.5°	5147.1	4470.8	2539.4	680.4	563.9	555.8	565.2	565.2	597.4	642.9	649.6
40°	5152.5	4386.4	2149.7	614.8	545.1	534.4	535.7	535.7	577.3	626.8	630.8
42.5°	5298.5	4407.8	1804.1	589.3	530.4	518.3	511.6	515.7	550.5	582.6	585.3
45°	5641.4	4559.2	1480.0	573.2	515.7	511.6	496.9	495.6	509.0	523.7	523.7
47.5°	6203.9	4857.8	1260.3	562.5	503.6	502.3	484.8	467.4	466.1	471.5	471.5
50°	7118.7	5372.2	1113.0	550.5	495.6	484.8	464.8	438.0	428.6	432.6	432.6
52.5°	8490.2	6289.6	1056.8	534.4	478.1	460.7	438.0	411.2	403.1	404.5	404.5
55°	10288.9	7698.6	1048.7	515.7	459.4	431.3	412.5	392.4	383.1	385.7	385.7
57.5°	12486.8	9647.4	1192.0	486.2	434.0	401.8	391.1	377.7	371.0	375.0	373.7
60°	15158.8	12197.5	1767.9	455.4	408.5	375.0	375.0	364.3	358.9	363.0	361.6
62.5°	18236.7	15126.7	2485.8	432.6	381.7	353.6	358.9	353.6	348.2	350.9	349.6
65°	20966.3	17035.3	2327.8	415.2	354.9	333.5	342.9	340.2	336.2	338.9	337.5
67.5°	21045.3	16328.1	1307.2	396.4	329.5	313.4	326.8	325.5	322.8	325.5	324.1
70°	18781.8	13787.3	736.6	361.6	302.7	289.3	308.1	306.7	304.0	309.4	308.1
72.5°	15047.7	10005.0	538.4	318.8	275.9	263.9	285.3	283.9	283.9	292.0	288.0
75°	8658.9	5148.5	429.9	273.2	247.8	238.4	257.2	258.5	261.2	271.9	263.9
77.5°	2468.4	1604.5	350.9	231.7	213.0	208.9	227.7	230.4	231.7	243.8	233.0
80°	917.5	739.3	289.3	194.2	174.1	175.5	192.9	196.9	198.2	210.3	196.9
82.5°	585.3	487.5	234.4	150.0	136.6	135.3	156.7	162.1	162.1	163.4	155.4
85°	341.5	292.0	176.8	108.5	96.4	92.4	116.5	125.9	121.9	119.2	113.8
87.5°	229.0	200.9	108.5	60.3	52.2	49.6	68.3	75.0	72.3	68.3	64.3
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)