

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: P192292

Luminaire Tested: **GLEON-AF-04-LED-E1-T3R-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192292  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-04-LED-E1-T3R-7050  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24550 lumens  
Efficiency: N/A  
Efficacy: 109.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B3 - U0 - G4

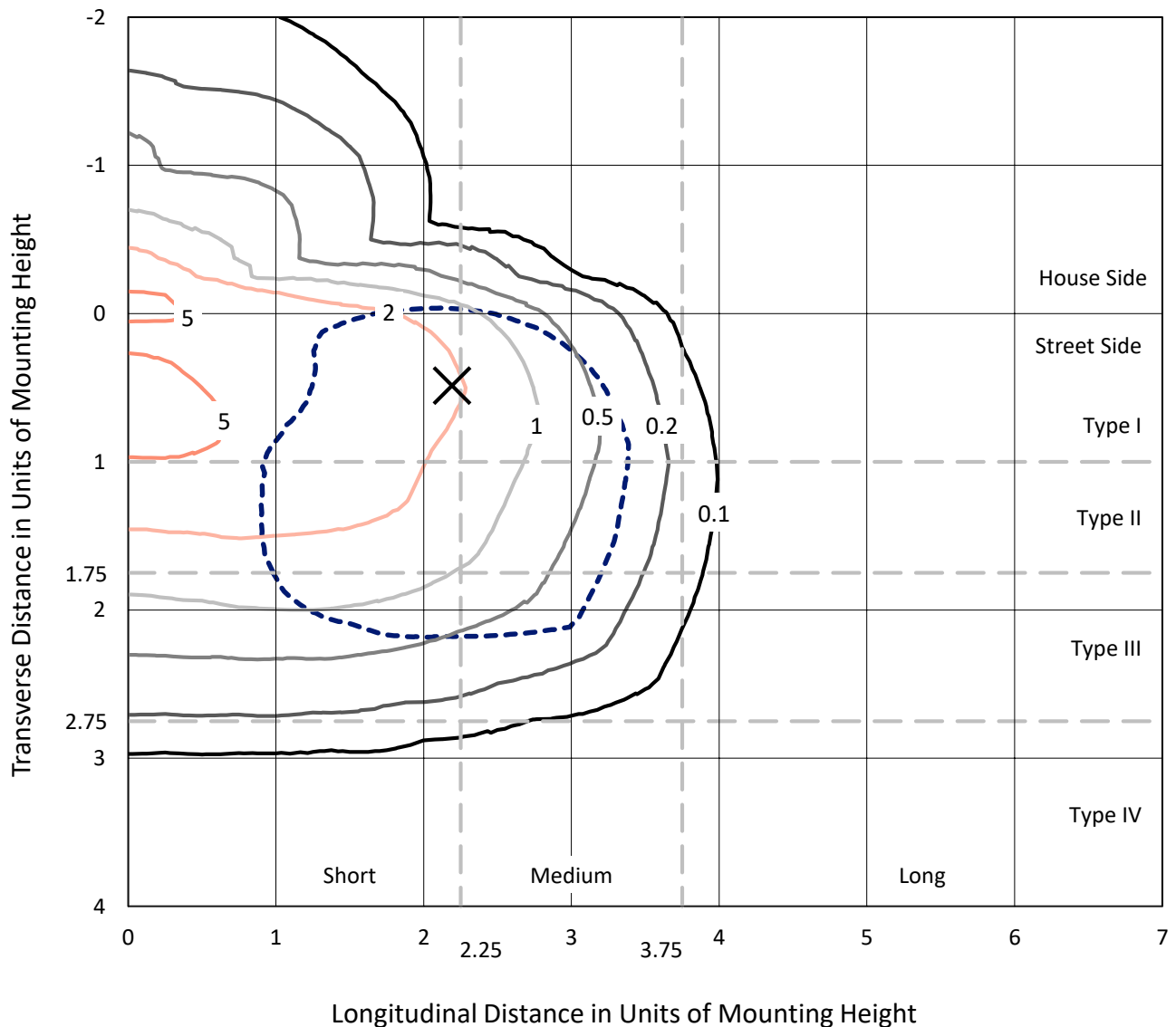
Input Watts (W): 225  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

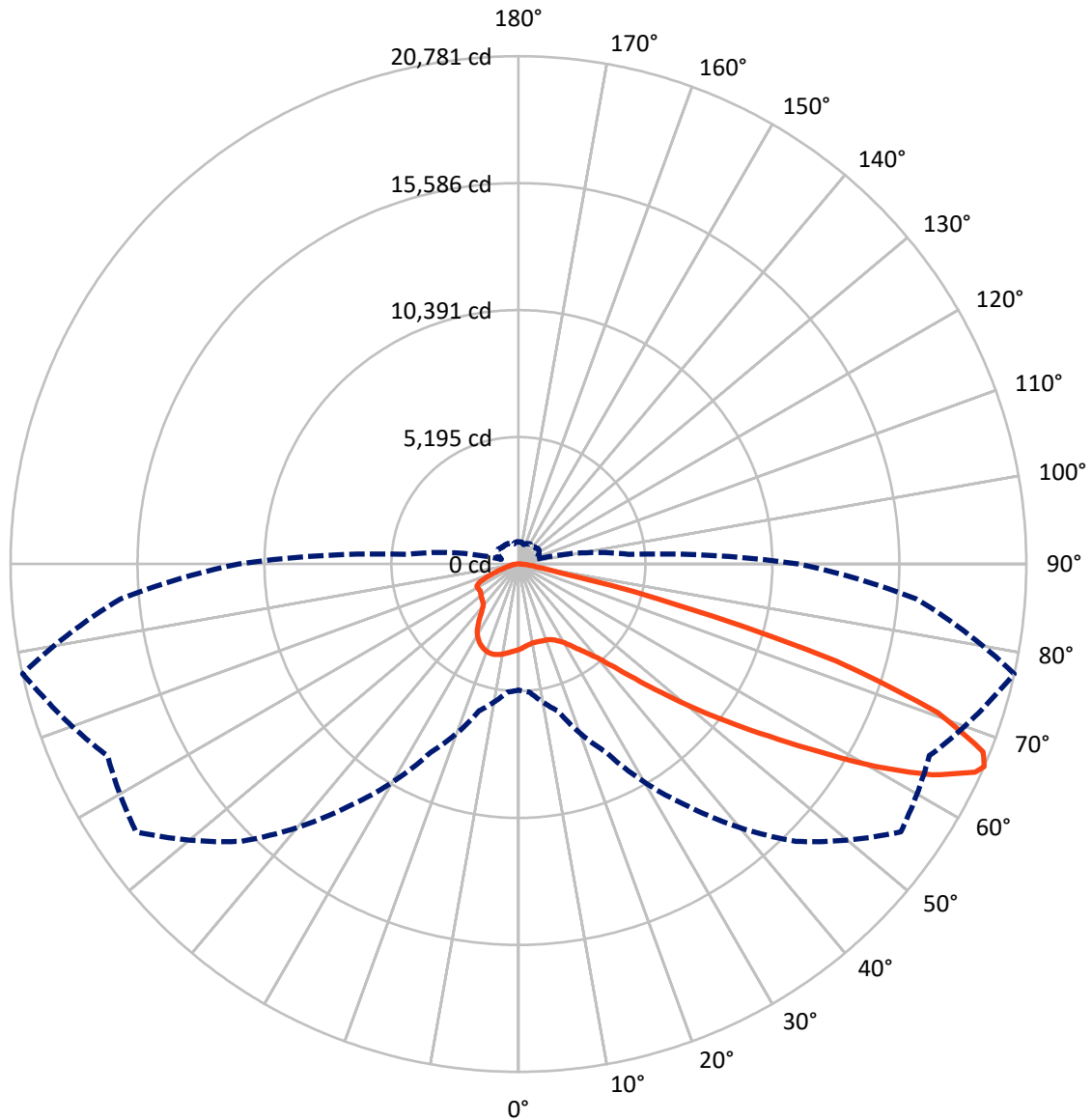
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4194.2	0.0	4194.2
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	20355.8	0.0	20355.8
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	24550.0	0.0	24550.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	312.6	1.3
10°-20°	881.8	3.6
20°-30°	1504.9	6.1
30°-40°	2409.1	9.8
40°-50°	3721.8	15.2
50°-60°	5278.8	21.5
60°-70°	7061.6	28.8
70°-80°	3066.7	12.5
80°-90°	312.7	1.3
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°	24550.0	100.0
0°-180°	24550.0	100.0



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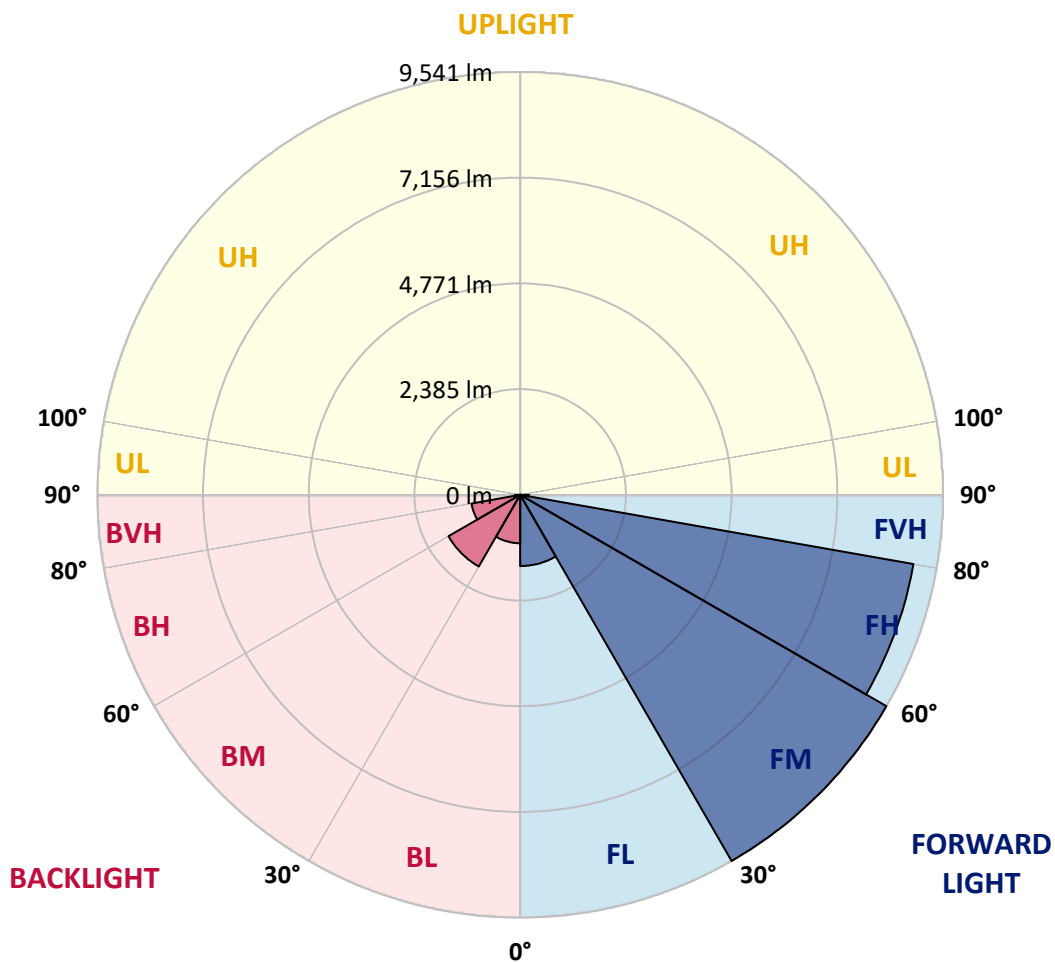
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1606.9	6.5			
FM	(30°-60°)	9541.4	38.9			
FH	(60°-80°)	9011.3	36.7			G4/12000
FVH	(80°-90°)	196.1	0.8			G2/225
BL	(0°-30°)	1092.3	4.4	B3/2500		
BM	(30°-60°)	1868.3	7.6	B2/2500		
BH	(60°-80°)	1117.0	4.5	B3/2500		G3/2500
BVH	(80°-90°)	116.6	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	3498.5	3498.5	3498.5	3498.5	3498.5	3498.5	3498.5	3498.5	3498.5	3498.5	3498.5
2.5°	3094.8	3115.7	3133.1	3149.3	3181.8	3235.2	3296.7	3346.5	3418.5	3432.4	3470.7
5°	2810.6	2810.6	2824.5	2848.9	2893.0	2973.0	3056.5	3167.9	3324.5	3361.6	3463.7
7.5°	2672.6	2673.7	2681.9	2702.7	2741.0	2814.1	2905.7	3036.8	3249.1	3310.6	3484.6
10°	2723.6	2712.0	2694.6	2684.2	2690.0	2732.9	2819.9	2966.1	3202.7	3281.6	3531.0
12.5°	3009.0	2986.9	2926.6	2846.6	2770.0	2738.7	2789.7	2932.4	3183.0	3274.6	3592.4
15°	3475.3	3466.0	3353.5	3187.6	3002.0	2846.6	2811.8	2919.7	3185.3	3282.7	3665.5
17.5°	4059.9	4047.2	3898.7	3657.4	3354.7	3051.9	2889.5	2930.1	3193.4	3296.7	3736.3
20°	4650.3	4610.9	4450.8	4163.2	3774.6	3331.5	3018.3	2956.8	3203.9	3311.7	3810.5
22.5°	5091.1	5058.7	4914.8	4635.3	4187.5	3655.1	3191.1	3003.2	3237.5	3355.8	3902.2
25°	5478.6	5480.9	5338.2	5067.9	4605.1	3998.4	3413.8	3127.3	3323.3	3446.3	4027.4
27.5°	5957.6	5929.8	5796.4	5528.5	5018.1	4345.3	3682.9	3297.8	3450.9	3575.1	4192.2
30°	6530.7	6511.0	6356.7	6052.8	5476.3	4717.6	3990.3	3496.2	3615.6	3744.4	4407.9
32.5°	7204.6	7195.3	7035.3	6644.4	6005.2	5156.1	4351.1	3758.3	3861.6	3995.0	4717.6
35°	7995.7	7996.9	7807.8	7338.0	6584.0	5666.5	4760.5	4095.9	4160.8	4300.0	5086.5
37.5°	8482.9	8542.1	8471.3	7992.2	7239.4	6237.2	5291.8	4543.6	4501.9	4642.2	5482.1
40°	8587.3	8659.2	8883.1	8639.5	7972.5	6865.9	5762.8	4974.0	4921.8	5093.5	5991.3
42.5°	8441.2	8540.9	9014.2	9185.9	8750.9	7640.8	6396.1	5613.1	5547.0	5777.8	6624.6
45°	8354.2	8428.4	8975.9	9470.1	9426.0	8516.6	7202.3	6415.8	6391.5	6694.2	7355.4
47.5°	8203.4	8270.6	8797.3	9536.2	9822.7	9319.3	8170.9	7397.2	7444.7	7841.4	8180.2
50°	8284.6	8312.4	8597.8	9368.0	9937.5	9907.4	9253.1	8534.0	8696.4	9191.7	9113.9
52.5°	8273.0	8344.9	8574.6	9091.9	9952.6	10270.4	10319.2	9801.8	10144.0	10712.4	10149.8
55°	6688.4	6820.7	8302.0	9022.3	10006.0	10626.6	11268.0	11138.1	11776.1	12438.4	11319.1
57.5°	6386.8	6470.4	7291.6	9168.5	10289.0	11306.3	12323.6	12609.0	13676.1	14445.2	12743.5
60°	6327.7	6430.9	7281.2	9347.1	10863.2	12414.1	13888.4	14389.5	15988.0	16830.1	14395.3
62.5°	6143.2	6254.6	7212.7	9323.9	11678.7	13946.4	15891.7	16282.6	18180.3	18999.3	15776.9
65°	5558.6	5663.0	6654.8	8949.2	12228.5	15582.0	18262.7	18017.9	19911.0	20527.0	16465.9
66°	5158.4	5260.5	6215.2	8508.4	12100.9	16046.0	19102.5	18555.0	20298.4	20781.0	16331.3
67.5°	4426.5	4506.5	5361.4	7521.3	11422.3	16175.9	19808.9	18958.7	20339.0	20509.6	15562.3
70°	2796.7	2819.9	3484.6	5192.1	8646.5	14028.8	18733.6	17956.4	18661.7	18200.0	13046.3
72.5°	1213.3	1205.2	1672.7	2641.3	4895.1	9413.2	15153.9	14816.4	14638.9	13585.7	9132.5
75°	675.1	684.4	868.8	1226.1	1989.4	4623.7	9913.2	9486.3	8009.6	6834.6	4141.1
77.5°	541.7	554.5	720.3	870.0	893.2	1612.4	4638.7	3774.6	2272.4	1823.5	1150.7
80°	428.0	451.2	628.7	677.4	602.0	664.7	1498.7	1198.3	899.0	824.7	596.2
82.5°	338.7	355.0	539.4	512.7	421.1	447.8	718.0	699.5	584.6	532.4	344.5
85°	243.6	273.8	443.1	386.3	276.1	301.6	476.8	457.0	335.2	273.8	152.0
87.5°	99.8	129.9	313.2	256.4	154.3	140.4	237.8	223.9	158.9	116.0	75.4
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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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3498.5	3498.5	3498.5	3498.5	3498.5	3498.5	3498.5	3498.5	3498.5	3498.5	3498.5
2.5°	3495.0	3522.9	3558.8	3580.9	3592.4	3600.6	3613.3	3612.2	3615.6	3616.8	3621.4
5°	3518.2	3564.6	3616.8	3630.7	3630.7	3618.0	3605.2	3584.3	3576.2	3573.9	3576.2
7.5°	3578.5	3629.6	3674.8	3658.6	3623.8	3572.7	3506.6	3448.6	3417.3	3406.9	3404.5
10°	3655.1	3716.6	3735.1	3673.6	3571.6	3448.6	3317.5	3222.4	3167.9	3152.8	3148.2
12.5°	3747.9	3805.9	3780.4	3650.4	3461.4	3263.0	3082.1	2930.1	2816.4	2780.5	2778.1
15°	3850.0	3895.2	3805.9	3578.5	3296.7	3004.3	2681.9	2419.7	2278.2	2233.0	2229.5
17.5°	3945.1	3968.3	3790.8	3453.3	3054.2	2580.9	2152.9	1951.1	1902.4	1914.0	1916.3
20°	4026.3	4026.3	3739.8	3273.5	2672.6	2023.0	1752.7	1749.2	1784.0	1818.8	1825.8
22.5°	4115.6	4062.2	3650.4	3019.4	2132.0	1655.3	1615.8	1648.3	1687.8	1726.0	1731.8
25°	4225.8	4091.2	3526.3	2634.3	1676.2	1503.3	1518.4	1545.1	1564.8	1589.2	1592.6
27.5°	4348.8	4128.4	3362.8	2104.2	1454.6	1408.2	1419.8	1429.1	1426.8	1436.1	1438.4
30°	4496.1	4171.3	3138.9	1644.8	1363.0	1327.0	1306.1	1298.0	1298.0	1313.1	1318.9
32.5°	4693.3	4235.1	2817.6	1409.4	1318.9	1269.0	1201.7	1171.6	1183.2	1234.2	1245.8
35°	4910.2	4303.5	2382.6	1329.3	1309.6	1242.3	1137.9	1082.3	1083.4	1131.0	1146.1
37.5°	5146.8	4390.5	1905.8	1314.3	1330.5	1243.5	1104.3	1027.7	996.4	996.4	1002.2
40°	5449.6	4479.8	1542.8	1324.7	1374.6	1257.4	1086.9	984.8	896.7	899.0	903.6
42.5°	5844.0	4556.4	1347.9	1346.7	1427.9	1276.0	1085.7	928.0	851.4	903.6	951.2
45°	6282.4	4594.7	1262.1	1366.5	1470.9	1287.6	1067.2	918.7	857.2	1012.7	1103.1
47.5°	6787.0	4572.6	1214.5	1373.4	1481.3	1287.6	1046.3	940.7	897.8	1172.7	1278.3
50°	7340.3	4508.8	1168.1	1359.5	1477.8	1285.3	1066.0	962.8	912.9	1200.6	1273.7
52.5°	7991.1	4455.5	1119.4	1329.3	1453.5	1272.5	1089.2	953.5	865.3	1091.5	1142.6
55°	8733.5	4470.6	1064.9	1286.4	1415.2	1248.1	1081.1	916.4	815.5	961.6	992.9
57.5°	9682.3	4650.3	999.9	1231.9	1363.0	1207.5	1052.1	899.0	800.4	872.3	890.9
60°	10741.4	4963.5	918.7	1177.4	1298.0	1142.6	1030.1	907.1	807.3	865.3	874.6
62.5°	11518.6	5145.7	849.1	1097.3	1209.9	1070.7	1002.2	917.5	825.9	889.7	887.4
65°	11729.7	4846.4	762.1	980.2	1090.4	995.3	967.4	929.1	834.0	909.4	899.0
66°	11433.9	4523.9	723.8	925.7	1030.1	958.1	950.0	928.0	830.5	911.7	894.3
67.5°	10715.9	3862.7	657.7	845.6	933.8	902.5	922.2	917.5	821.3	909.4	885.1
70°	8739.3	2635.5	562.6	704.1	777.2	794.6	868.8	880.4	791.1	868.8	815.5
72.5°	6106.1	1605.4	497.6	546.3	628.7	677.4	795.7	829.4	750.5	758.6	707.6
75°	2951.0	852.6	451.2	423.4	488.4	566.1	707.6	759.8	686.7	634.5	615.9
77.5°	919.9	520.8	382.8	341.0	382.8	457.0	591.6	665.8	611.3	531.3	524.3
80°	494.2	382.8	294.6	273.8	302.8	358.4	465.2	555.6	525.5	476.8	425.7
82.5°	326.0	248.2	218.1	212.3	230.8	273.8	345.7	460.5	460.5	408.3	297.0
85°	168.2	152.0	149.6	149.6	161.2	182.1	235.5	355.0	378.2	215.8	178.6
87.5°	83.5	87.0	81.2	84.7	90.5	89.3	112.5	178.6	213.4	131.1	109.0
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)