

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: P192332

Luminaire Tested: **GLEON-AF-04-LED-E1-T4FT-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192332  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)  
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-T4FT-7050  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24156 lumens  
Efficiency: N/A  
Efficacy: 107.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-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

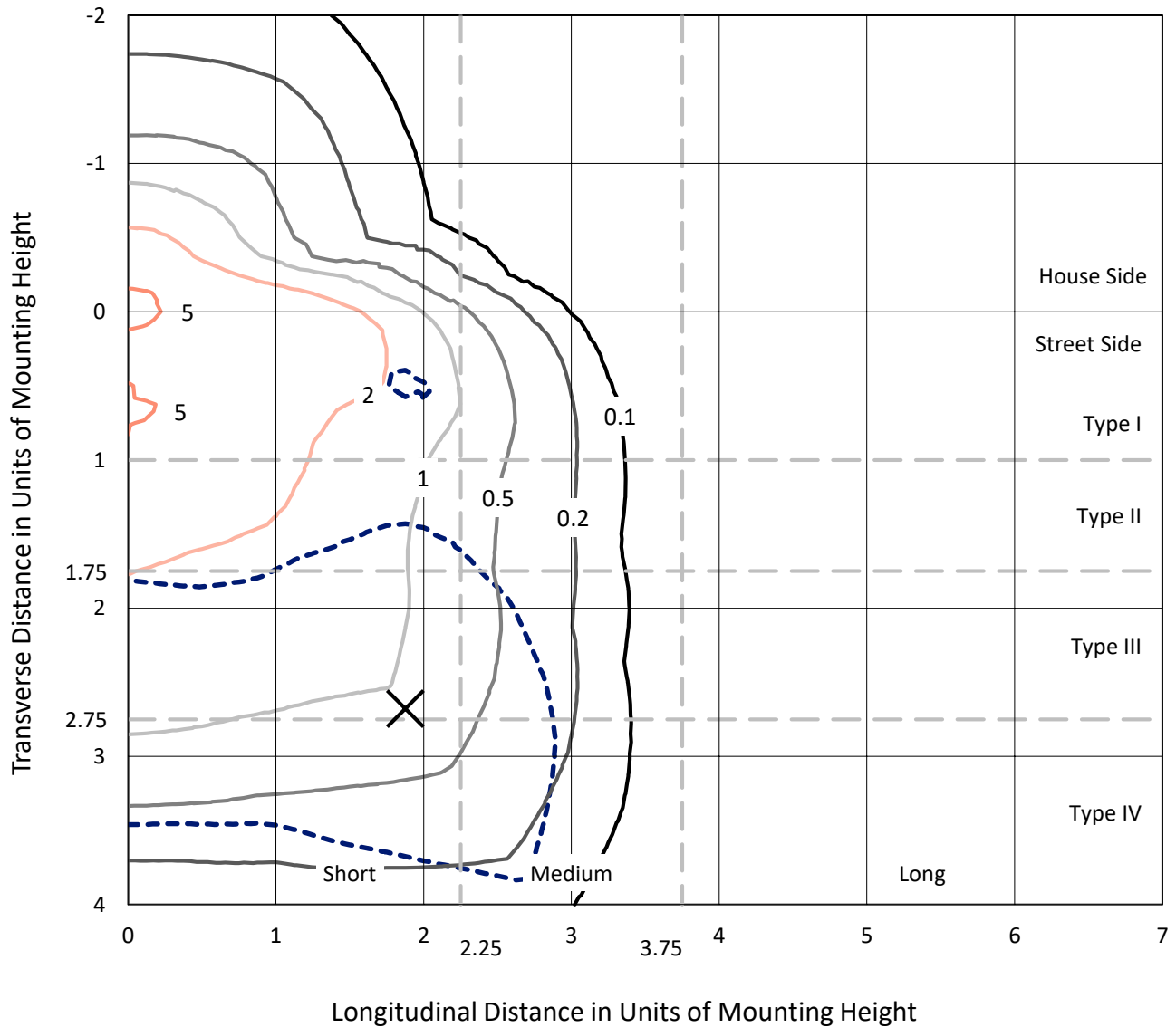


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### Iso-Footcandle Lines of Horizontal Illumination

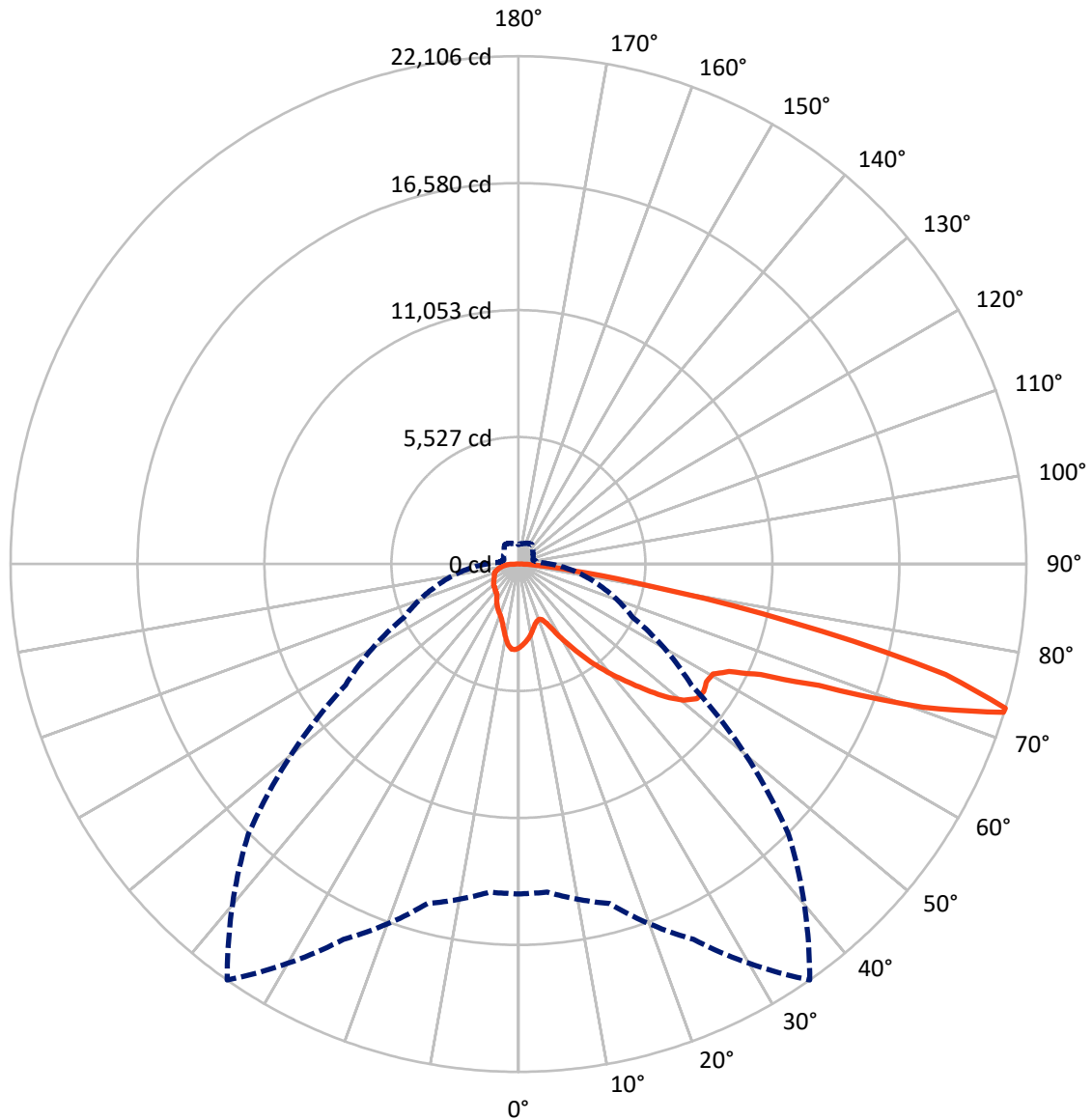
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4607.2	0.0	4607.2
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	19548.8	0.0	19548.8
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	24156.0	0.0	24156.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	330.1	1.4
10°-20°	823.8	3.4
20°-30°	1331.7	5.5
30°-40°	2233.2	9.2
40°-50°	3442.3	14.3
50°-60°	4618.2	19.1
60°-70°	6152.4	25.5
70°-80°	4692.4	19.4
80°-90°	531.9	2.2
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°	24156.0	100.0
0°-180°	24156.0	100.0



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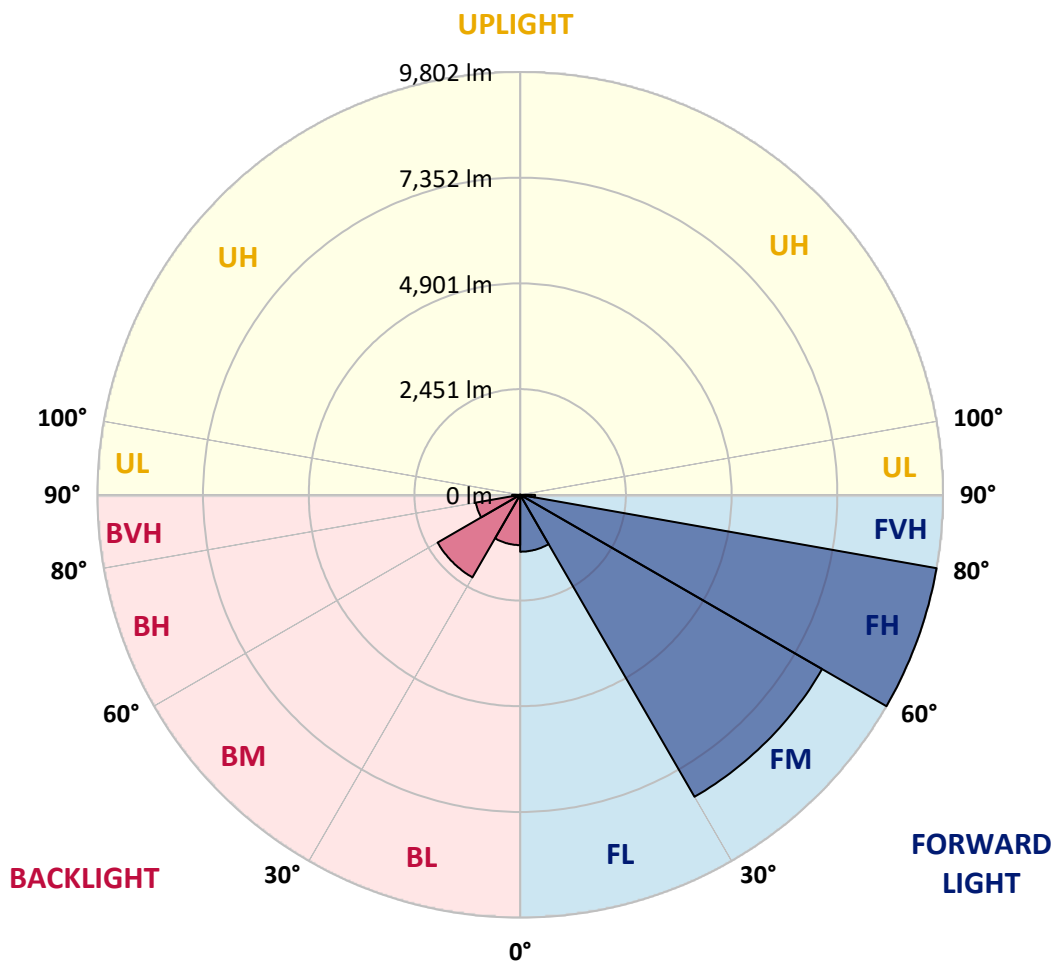
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1319.7	5.5			
FM	(30°-60°)	8082.8	33.5			
FH	(60°-80°)	9802.5	40.6			G4/12000
FVH	(80°-90°)	343.8	1.4			G3/500
BL	(0°-30°)	1165.8	4.8	B3/2500		
BM	(30°-60°)	2210.9	9.2	B2/2500		
BH	(60°-80°)	1042.3	4.3	B3/2500		G3/2500
BVH	(80°-90°)	188.1	0.8			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3645.9	3645.9	3645.9	3645.9	3645.9	3645.9	3645.9	3645.9	3645.9	3645.9	3645.9
2.5°	3502.1	3509.0	3500.9	3511.3	3528.7	3547.3	3560.1	3578.6	3599.5	3628.5	3635.5
5°	3337.3	3347.8	3347.8	3366.3	3400.0	3430.1	3458.0	3488.1	3532.2	3582.1	3601.8
7.5°	3156.4	3162.2	3172.6	3200.4	3249.2	3292.1	3331.5	3380.3	3440.6	3506.7	3541.5
10°	2938.3	2946.4	2962.6	3002.1	3068.2	3127.4	3184.2	3251.5	3328.0	3410.4	3454.5
12.5°	2784.0	2781.7	2788.6	2817.6	2875.6	2947.6	3029.9	3115.8	3209.7	3306.0	3359.4
15°	2731.8	2719.0	2692.4	2685.4	2716.7	2788.6	2883.8	2989.3	3101.8	3217.8	3284.0
17.5°	2764.3	2742.2	2669.2	2615.8	2611.2	2665.7	2766.6	2884.9	3014.8	3156.4	3238.7
20°	2968.4	2916.2	2736.4	2612.3	2569.4	2596.1	2684.2	2809.5	2962.6	3150.6	3256.1
22.5°	3456.8	3380.3	2998.6	2767.8	2622.8	2590.3	2656.4	2789.8	2968.4	3222.5	3357.0
25°	4167.9	4058.9	3448.7	3155.2	2855.9	2683.1	2698.2	2835.0	3050.8	3389.5	3551.9
27.5°	4729.3	4658.6	4036.8	3701.6	3280.5	2933.6	2833.9	2948.7	3219.0	3663.3	3829.2
30°	5063.4	5020.5	4665.5	4321.0	3822.2	3332.7	3093.7	3162.2	3482.3	4042.6	4179.5
32.5°	5450.9	5425.3	5251.3	4934.7	4406.9	3857.0	3505.5	3481.2	3835.0	4498.5	4561.1
35°	5852.2	5844.1	5742.0	5514.7	5034.4	4548.4	4051.9	3887.2	4218.9	4971.8	4932.3
37.5°	6225.7	6211.8	6152.7	6020.4	5691.0	5290.8	4608.7	4303.6	4633.1	5424.2	5249.0
40°	6913.6	6804.6	6601.6	6501.8	6354.5	5916.0	5050.7	4692.2	5062.3	5855.7	5522.8
42.5°	7752.3	7574.8	7196.7	7059.8	7038.9	6409.0	5352.3	5069.2	5494.9	6283.7	5791.9
45°	8412.3	8245.3	7919.3	7746.5	7823.1	6855.6	5655.0	5471.7	5940.4	6732.7	6069.1
47.5°	9116.5	8854.3	8422.8	8475.0	8642.0	7277.9	5963.6	5904.4	6428.7	7234.9	6413.7
50°	9142.0	8941.3	8752.2	9064.3	9324.1	7666.5	6349.9	6358.0	7026.1	7867.1	6871.9
52.5°	8611.9	8568.9	8869.4	9360.1	9734.7	7973.9	6789.5	6826.6	7790.6	8593.3	7375.3
55°	8426.3	8377.5	8724.4	9256.8	9790.4	8227.9	7266.3	7333.5	8715.1	9358.9	7866.0
57.5°	8878.7	8770.8	8794.0	9208.1	9654.7	8506.3	7785.9	7921.7	9719.7	10028.2	8181.5
60°	10143.1	9912.2	9473.7	9463.3	9727.8	8923.9	8386.8	8552.7	10763.7	10348.4	8058.5
62.5°	11916.7	11685.9	10864.6	10329.8	10290.4	9612.9	9124.6	9168.7	11366.9	9914.5	7308.0
65°	13836.5	13630.0	12712.5	11957.3	11593.1	10754.4	9981.8	9443.6	11169.7	8720.9	5994.9
67.5°	16167.0	15945.4	15156.6	14459.4	14109.1	12596.5	10583.9	9180.3	9918.0	6755.9	4309.4
70°	17796.8	17570.6	17259.7	17824.6	18681.9	15254.0	10661.6	8109.6	7407.8	4490.4	2593.8
72.5°	15670.5	15564.9	16132.2	18511.3	22081.8	16866.4	9637.3	5904.4	4302.5	2383.8	1501.0
73°	14357.4	14334.2	15301.6	18029.9	22106.2	16618.2	9188.4	5488.0	3690.0	2108.9	1372.3
75°	6483.3	6670.0	8790.5	13771.6	19206.2	13693.8	6467.0	3148.2	2084.5	1457.0	1035.9
77.5°	1557.9	1622.8	2750.4	6540.1	12129.0	8160.6	2930.2	1556.7	1332.8	1028.9	756.3
80°	663.5	685.6	1059.1	2416.3	5710.7	3286.3	1350.2	1042.8	922.2	718.0	530.1
82.5°	368.9	392.1	600.9	1096.2	2304.9	1120.6	823.6	726.2	606.7	432.7	344.5
85°	208.8	221.6	351.5	612.5	976.7	450.1	493.0	482.6	342.2	222.7	169.4
87.5°	98.6	106.7	169.4	284.2	382.8	176.3	250.6	276.1	214.6	135.7	88.2
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3645.9	3645.9	3645.9	3645.9	3645.9	3645.9	3645.9	3645.9	3645.9	3645.9
2.5°	3643.6	3664.5	3688.8	3701.6	3713.2	3727.1	3741.0	3741.0	3743.3	3744.5
5°	3618.1	3661.0	3699.3	3715.5	3719.0	3719.0	3715.5	3696.9	3680.7	3687.7
7.5°	3564.7	3627.3	3659.8	3654.0	3609.9	3558.9	3516.0	3463.8	3437.1	3432.5
10°	3488.1	3560.1	3565.9	3507.9	3398.8	3289.8	3199.3	3111.1	3069.4	3058.9
12.5°	3403.5	3469.6	3432.5	3313.0	3137.8	2978.9	2864.0	2774.7	2735.3	2724.8
15°	3335.0	3380.3	3286.3	3098.4	2878.0	2709.8	2614.6	2548.5	2520.7	2512.6
17.5°	3299.0	3308.3	3136.6	2882.6	2648.3	2507.9	2448.8	2417.4	2407.0	2401.2
20°	3316.4	3251.5	2994.0	2681.9	2460.4	2361.8	2347.8	2339.7	2337.4	2333.9
22.5°	3403.5	3234.1	2862.9	2491.7	2295.6	2252.7	2264.3	2263.2	2260.8	2258.5
25°	3558.9	3249.2	2735.3	2310.7	2157.6	2148.3	2169.2	2169.2	2159.9	2159.9
27.5°	3764.2	3280.5	2592.6	2139.0	2032.3	2033.5	2049.7	2045.1	2034.6	2027.7
30°	4014.8	3300.2	2425.6	1984.8	1915.2	1910.5	1915.2	1895.4	1864.1	1861.8
32.5°	4271.1	3275.8	2231.8	1847.9	1791.0	1780.6	1777.1	1749.3	1713.3	1702.9
35°	4503.1	3186.5	2034.6	1738.8	1672.7	1649.5	1665.8	1656.5	1624.0	1615.9
37.5°	4672.5	3020.6	1857.2	1642.6	1588.0	1582.2	1592.7	1596.2	1557.9	1549.8
40°	4786.2	2795.6	1705.2	1561.4	1571.8	1549.8	1515.0	1490.6	1479.0	1475.5
42.5°	4877.8	2561.3	1577.6	1523.1	1575.3	1511.5	1436.1	1396.6	1417.5	1426.8
45°	4983.4	2332.8	1470.9	1475.5	1557.9	1467.4	1381.6	1343.3	1351.4	1353.7
47.5°	5128.4	2054.4	1356.0	1399.0	1499.9	1437.2	1347.9	1293.4	1255.1	1237.7
50°	5329.1	1724.9	1236.6	1313.1	1443.0	1415.2	1295.7	1237.7	1167.0	1150.7
52.5°	5468.3	1417.5	1138.0	1241.2	1392.0	1371.1	1254.0	1178.6	1104.3	1090.4
55°	5392.9	1177.4	1052.1	1161.2	1324.7	1316.6	1219.2	1118.2	1060.2	1048.6
57.5°	5015.9	1025.4	986.0	1085.8	1242.4	1270.2	1172.8	1067.2	1025.4	1017.3
60°	4296.7	930.3	944.2	1034.7	1175.1	1223.8	1126.4	1039.4	1011.5	1005.7
62.5°	3333.8	866.5	912.9	997.6	1122.9	1191.3	1100.8	1035.9	1025.4	1018.5
65°	2388.4	815.5	879.3	960.5	1075.3	1161.2	1091.6	1031.2	1033.6	1027.8
67.5°	1622.8	770.2	838.7	918.7	1028.9	1134.5	1078.8	1015.0	1044.0	1037.0
70°	1135.6	726.2	791.1	865.4	970.9	1097.4	1055.6	990.6	988.3	960.5
72.5°	886.2	668.2	726.2	791.1	896.7	1045.2	1009.2	936.1	897.8	868.8
73°	845.6	654.2	709.9	774.9	880.4	1032.4	996.4	921.0	878.1	851.4
75°	699.5	593.9	645.0	703.0	810.8	972.1	933.8	852.6	798.1	781.8
77.5°	549.8	508.1	556.8	609.0	714.6	883.9	841.0	763.3	733.1	719.2
80°	407.2	421.1	464.0	510.4	619.4	790.0	751.7	674.0	808.5	774.9
82.5°	286.5	319.0	358.4	400.2	519.7	698.3	651.9	571.9	591.6	491.8
85°	169.4	208.8	245.9	281.9	374.7	578.8	538.2	455.9	373.5	356.1
87.5°	98.6	116.0	126.4	163.6	257.5	436.2	379.3	337.6	193.7	131.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)