

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: P194056

Luminaire Tested: **GLEON-AF-08-LED-E1-T4FT-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194056
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-08-LED-E1-T4FT-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA 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: 25802 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 257
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

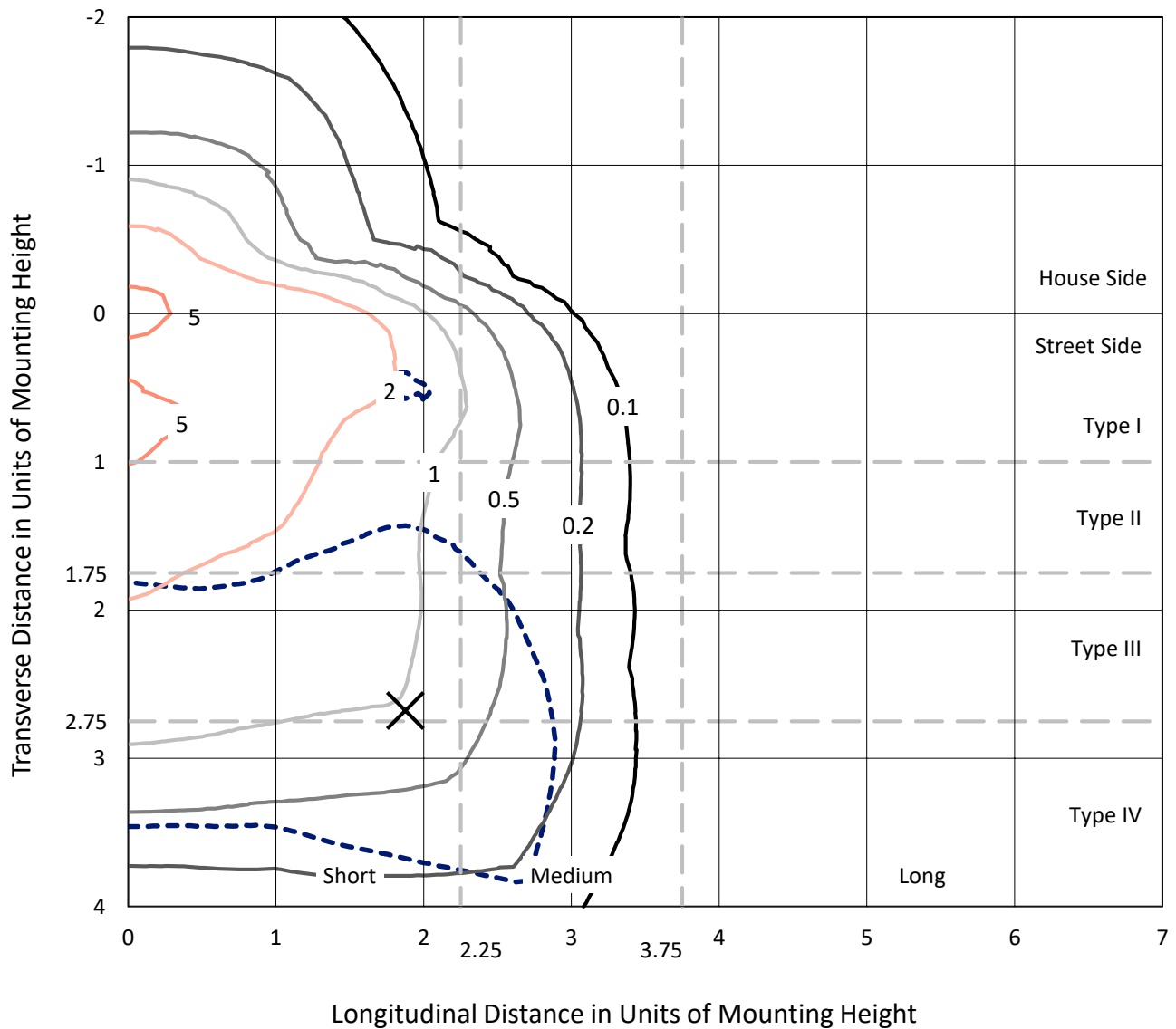


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

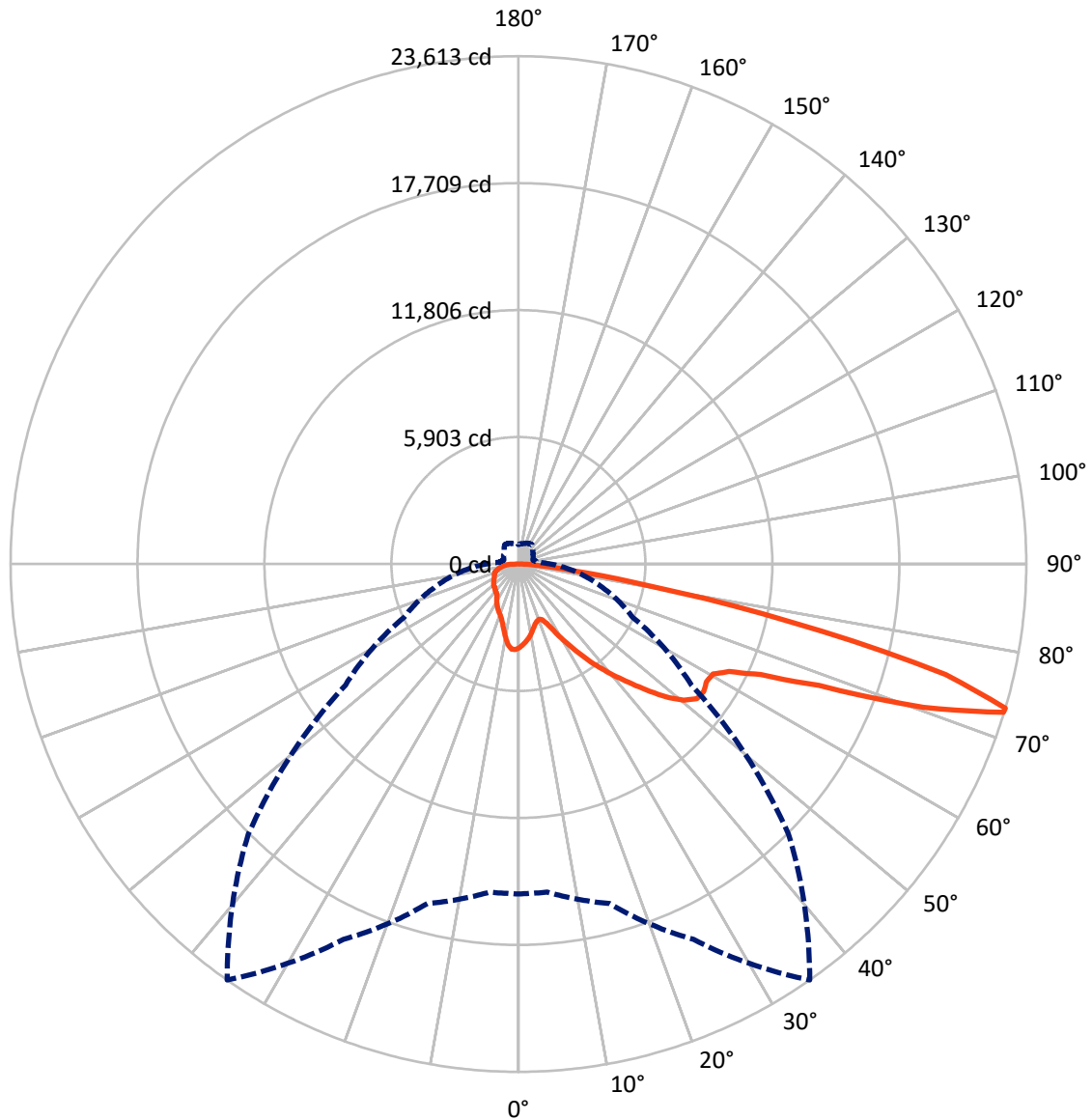


Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Short - Non-Cutoff

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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
House Side	Lumens	4921.2	0.0	4921.2
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	20880.8	0.0	20880.8
	% Fixture	80.9	0.0	80.9
Total	Lumens	25802.0	0.0	25802.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.5	1.4
10°-20°	879.9	3.4
20°-30°	1422.5	5.5
30°-40°	2385.3	9.2
40°-50°	3676.9	14.3
50°-60°	4932.9	19.1
60°-70°	6571.6	25.5
70°-80°	5012.2	19.4
80°-90°	568.1	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°	25802.0	100.0
0°-180°	25802.0	100.0



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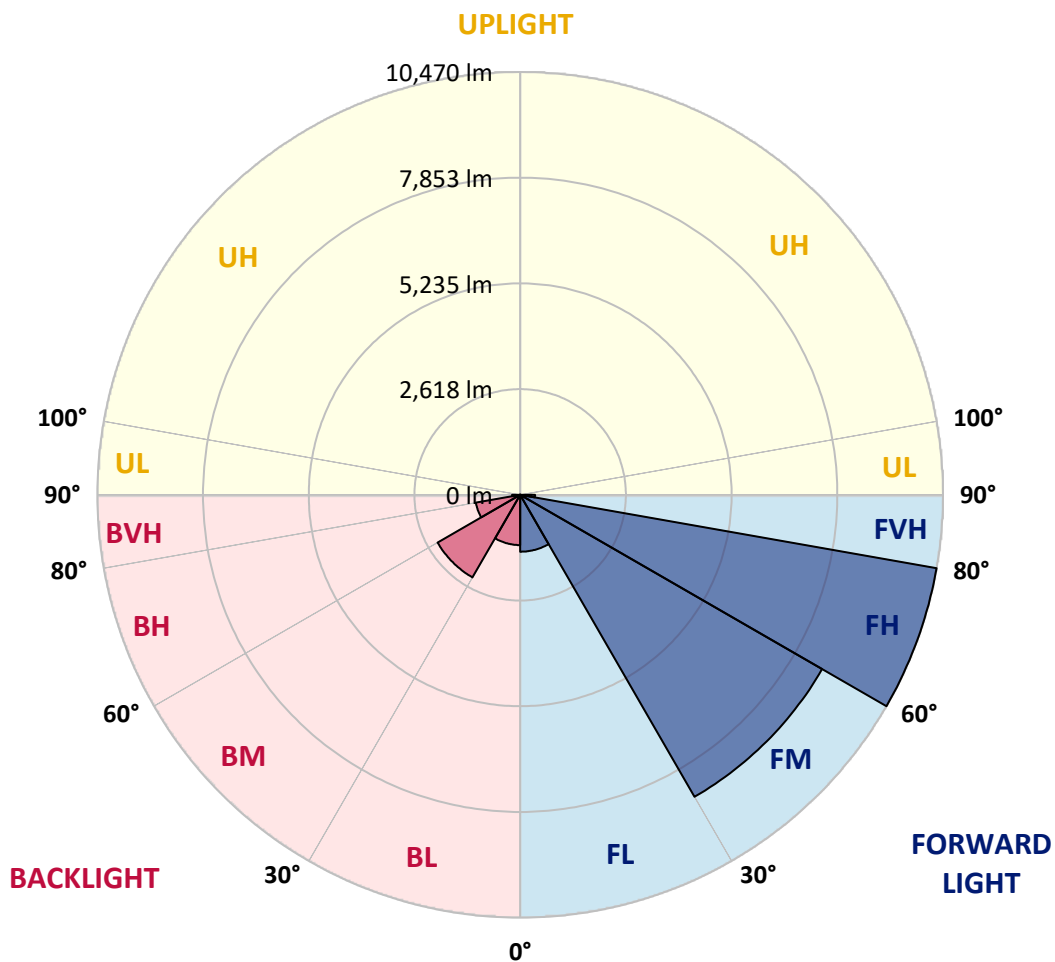
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1409.7	5.5			
FM	(30°-60°)	8633.5	33.5			
FH	(60°-80°)	10470.4	40.6			G4/12000
FVH	(80°-90°)	367.2	1.4			G3/500
BL	(0°-30°)	1245.3	4.8	B3/2500		
BM	(30°-60°)	2361.6	9.2	B2/2500		
BH	(60°-80°)	1113.4	4.3	B3/2500		G3/2500
BVH	(80°-90°)	200.9	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°	3894.3	3894.3	3894.3	3894.3	3894.3	3894.3	3894.3	3894.3	3894.3	3894.3	3894.3
2.5°	3740.7	3748.1	3739.4	3750.6	3769.2	3789.0	3802.6	3822.5	3844.8	3875.7	3883.2
5°	3564.7	3575.9	3575.9	3595.7	3631.6	3663.9	3693.6	3725.8	3772.9	3826.2	3847.2
7.5°	3371.4	3377.6	3388.8	3418.5	3470.6	3516.4	3558.5	3610.6	3675.0	3745.6	3782.8
10°	3138.5	3147.2	3164.5	3206.7	3277.3	3340.5	3401.2	3473.0	3554.8	3642.8	3689.9
12.5°	2973.7	2971.2	2978.7	3009.6	3071.6	3148.4	3236.4	3328.1	3428.4	3531.3	3588.3
15°	2918.0	2904.3	2875.8	2868.4	2901.8	2978.7	3080.3	3193.0	3313.2	3437.1	3507.7
17.5°	2952.6	2929.1	2851.0	2794.0	2789.1	2847.3	2955.1	3081.5	3220.3	3371.4	3459.4
20°	3170.7	3115.0	2922.9	2790.3	2744.5	2773.0	2867.2	3001.0	3164.5	3365.3	3478.0
22.5°	3692.4	3610.6	3202.9	2956.4	2801.5	2766.8	2837.4	2979.9	3170.7	3442.1	3585.8
25°	4451.9	4335.4	3683.7	3370.2	3050.5	2865.9	2882.0	3028.2	3258.7	3620.5	3794.0
27.5°	5051.6	4976.0	4311.9	3953.8	3504.0	3133.5	3027.0	3149.7	3438.4	3912.9	4090.1
30°	5408.4	5362.6	4983.4	4615.4	4082.7	3559.8	3304.5	3377.6	3719.6	4318.1	4464.3
32.5°	5822.3	5795.0	5609.2	5270.9	4707.1	4119.8	3744.4	3718.4	4096.3	4805.0	4871.9
35°	6251.0	6242.3	6133.3	5890.4	5377.5	4858.3	4328.0	4152.0	4506.4	5310.6	5268.4
37.5°	6650.0	6635.1	6571.9	6430.7	6078.8	5651.3	4922.7	4596.9	4948.8	5793.8	5606.7
40°	7384.7	7268.2	7051.4	6944.9	6787.5	6319.1	5394.8	5011.9	5407.2	6254.7	5899.1
42.5°	8280.5	8091.0	7687.0	7540.8	7518.5	6845.7	5717.0	5414.6	5869.4	6711.9	6186.6
45°	8985.6	8807.1	8459.0	8274.4	8356.1	7322.8	6040.4	5844.6	6345.2	7191.4	6482.7
47.5°	9737.7	9457.6	8996.7	9052.5	9230.9	7773.8	6369.9	6306.7	6866.8	7727.9	6850.7
50°	9764.9	9550.6	9348.6	9681.9	9959.5	8188.9	6782.5	6791.2	7504.9	8403.2	7340.1
52.5°	9198.7	9152.8	9473.7	9997.9	10398.1	8517.2	7252.1	7291.8	8321.4	9178.9	7877.9
55°	9000.4	8948.4	9318.9	9887.6	10457.6	8788.6	7761.4	7833.3	9309.0	9996.6	8402.0
57.5°	9483.7	9368.4	9393.2	9835.6	10312.6	9085.9	8316.5	8461.4	10382.0	10711.6	8739.0
60°	10834.2	10587.7	10119.3	10108.1	10390.6	9532.0	8958.3	9135.5	11497.1	11053.5	8607.7
62.5°	12728.7	12482.2	11604.9	11033.7	10991.6	10268.0	9746.3	9793.4	12141.4	10590.1	7806.0
65°	14779.3	14558.8	13578.7	12772.1	12383.0	11487.2	10662.0	10087.1	11930.8	9315.2	6403.4
67.5°	17268.6	17031.9	16189.4	15444.7	15070.5	13454.8	11305.1	9805.8	10593.8	7216.2	4603.1
70°	19009.5	18767.8	18435.8	19039.2	19954.8	16293.5	11388.1	8662.2	7912.6	4796.3	2770.5
72.5°	16738.3	16625.5	17231.4	19772.7	23586.5	18015.7	10294.0	6306.7	4595.6	2546.2	1603.3
73°	15335.7	15310.9	16344.3	19258.5	23612.5	17750.6	9814.5	5861.9	3941.4	2252.6	1465.8
75°	6925.0	7124.5	9389.5	14710.0	20514.9	14626.9	6907.7	3362.8	2226.6	1556.2	1106.5
77.5°	1664.0	1733.4	2937.8	6985.7	12955.5	8716.7	3129.8	1662.8	1423.7	1099.0	807.9
80°	708.7	732.3	1131.2	2580.9	6099.8	3510.2	1442.3	1113.9	985.0	767.0	566.2
82.5°	394.0	418.8	641.8	1170.9	2462.0	1196.9	879.7	775.6	648.0	462.2	368.0
85°	223.0	236.7	375.4	654.2	1043.3	480.8	526.6	515.4	365.5	237.9	180.9
87.5°	105.3	114.0	180.9	303.6	408.9	188.3	267.6	294.9	229.2	145.0	94.2
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°	3894.3	3894.3	3894.3	3894.3	3894.3	3894.3	3894.3	3894.3	3894.3	3894.3
2.5°	3891.8	3914.1	3940.2	3953.8	3966.2	3981.1	3995.9	3995.9	3998.4	3999.6
5°	3864.6	3910.4	3951.3	3968.7	3972.4	3972.4	3968.7	3948.8	3931.5	3938.9
7.5°	3807.6	3874.5	3909.2	3903.0	3855.9	3801.4	3755.6	3699.8	3671.3	3666.3
10°	3725.8	3802.6	3808.8	3746.9	3630.4	3513.9	3417.3	3323.1	3278.5	3267.4
12.5°	3635.4	3706.0	3666.3	3538.7	3351.6	3181.9	3059.2	2963.8	2921.7	2910.5
15°	3562.3	3610.6	3510.2	3309.5	3074.1	2894.4	2792.8	2722.2	2692.4	2683.8
17.5°	3523.8	3533.8	3350.4	3079.0	2828.7	2678.8	2615.6	2582.2	2571.0	2564.8
20°	3542.4	3473.0	3198.0	2864.7	2628.0	2522.7	2507.8	2499.2	2496.7	2493.0
22.5°	3635.4	3454.5	3058.0	2661.5	2452.1	2406.2	2418.6	2417.4	2414.9	2412.4
25°	3801.4	3470.6	2921.7	2468.2	2304.6	2294.7	2317.0	2317.0	2307.1	2307.1
27.5°	4020.7	3504.0	2769.3	2284.8	2170.8	2172.0	2189.4	2184.4	2173.3	2165.9
30°	4288.3	3525.1	2590.8	2120.0	2045.7	2040.7	2045.7	2024.6	1991.1	1988.7
32.5°	4562.2	3499.1	2383.9	1973.8	1913.1	1901.9	1898.2	1868.5	1830.1	1818.9
35°	4810.0	3403.7	2173.3	1857.3	1786.7	1761.9	1779.3	1769.4	1734.7	1726.0
37.5°	4990.9	3226.5	1983.7	1754.5	1696.3	1690.1	1701.2	1704.9	1664.0	1655.4
40°	5112.3	2986.1	1821.4	1667.8	1678.9	1655.4	1618.2	1592.2	1579.8	1576.1
42.5°	5210.2	2735.8	1685.1	1626.9	1682.6	1614.5	1533.9	1491.8	1514.1	1524.0
45°	5322.9	2491.7	1571.1	1576.1	1664.0	1567.4	1475.7	1434.8	1443.5	1446.0
47.5°	5477.8	2194.4	1448.4	1494.3	1602.1	1535.2	1439.8	1381.5	1340.6	1322.1
50°	5692.2	1842.5	1320.8	1402.6	1541.4	1511.6	1384.0	1322.1	1246.5	1229.1
52.5°	5840.9	1514.1	1215.5	1325.8	1486.9	1464.6	1339.4	1258.9	1179.6	1164.7
55°	5760.3	1257.6	1123.8	1240.3	1415.0	1406.3	1302.2	1194.4	1132.5	1120.1
57.5°	5357.6	1095.3	1053.2	1159.7	1327.0	1356.8	1252.7	1139.9	1095.3	1086.6
60°	4589.4	993.7	1008.6	1105.2	1255.2	1307.2	1203.1	1110.2	1080.4	1074.3
62.5°	3561.0	925.6	975.1	1065.6	1199.4	1272.5	1175.9	1106.5	1095.3	1087.9
65°	2551.2	871.0	939.2	1025.9	1148.6	1240.3	1165.9	1101.5	1104.0	1097.8
67.5°	1733.4	822.7	895.8	981.3	1099.0	1211.8	1152.3	1084.2	1115.1	1107.7
70°	1213.0	775.6	845.0	924.3	1037.1	1172.1	1127.5	1058.1	1055.7	1025.9
72.5°	946.6	713.7	775.6	845.0	957.8	1116.4	1078.0	999.9	959.0	928.0
73°	903.3	698.8	758.3	827.7	940.4	1102.8	1064.3	983.8	938.0	909.5
75°	747.1	634.4	688.9	750.9	866.1	1038.3	997.4	910.7	852.5	835.1
77.5°	587.3	542.7	594.7	650.5	763.3	944.2	898.3	815.3	783.1	768.2
80°	434.9	449.8	495.6	545.2	661.7	843.8	802.9	719.9	863.6	827.7
82.5°	306.0	340.7	382.9	427.5	555.1	745.9	696.3	610.8	631.9	525.4
85°	180.9	223.0	262.7	301.1	400.2	618.3	574.9	486.9	399.0	380.4
87.5°	105.3	123.9	135.1	174.7	275.1	465.9	405.2	360.6	206.9	140.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)