

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: P194064

Luminaire Tested: **GLEON-AF-06-LED-E1-T4FT-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194064
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-06-LED-E1-T4FT-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 800mA 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: 23612 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-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

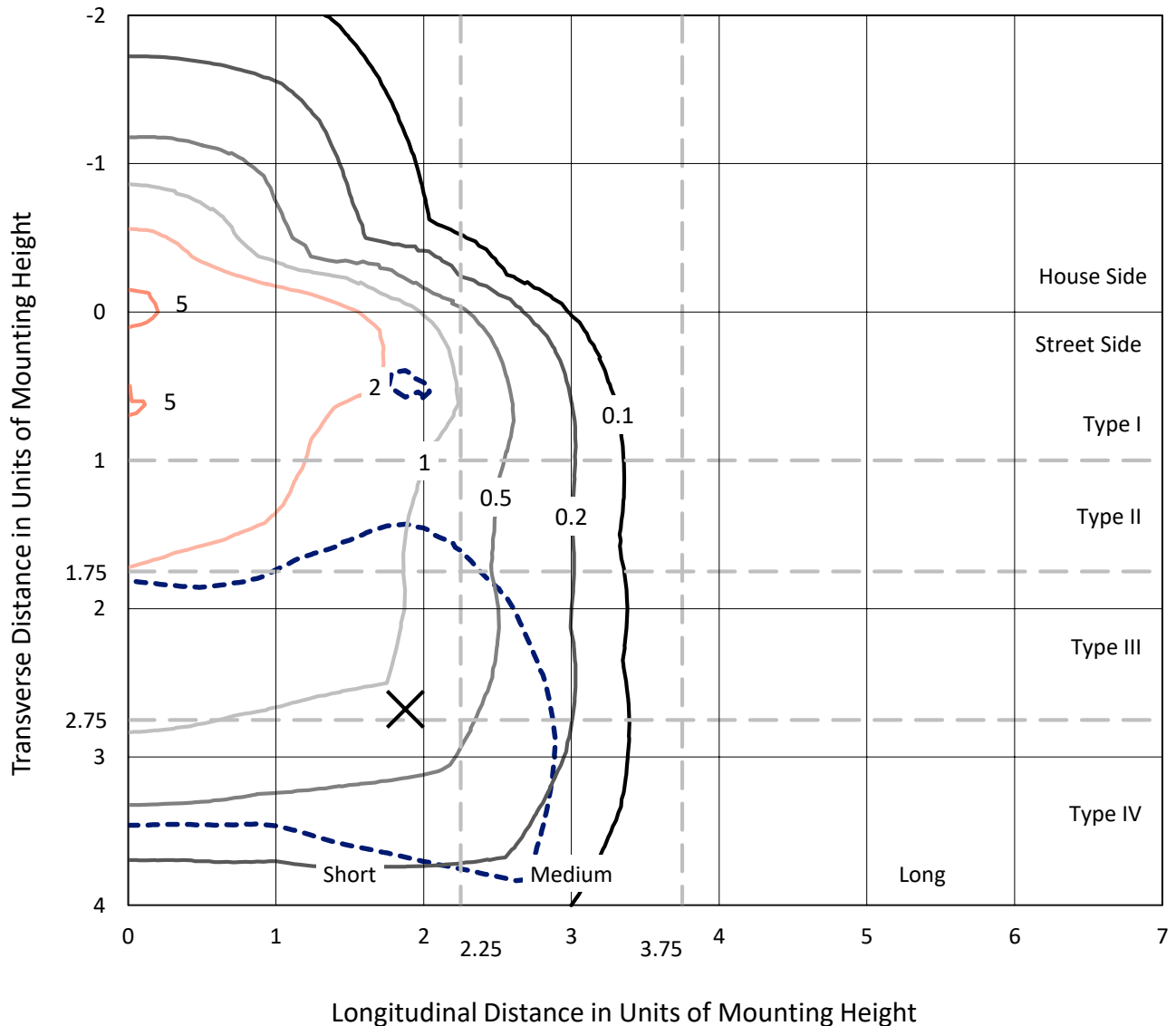


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

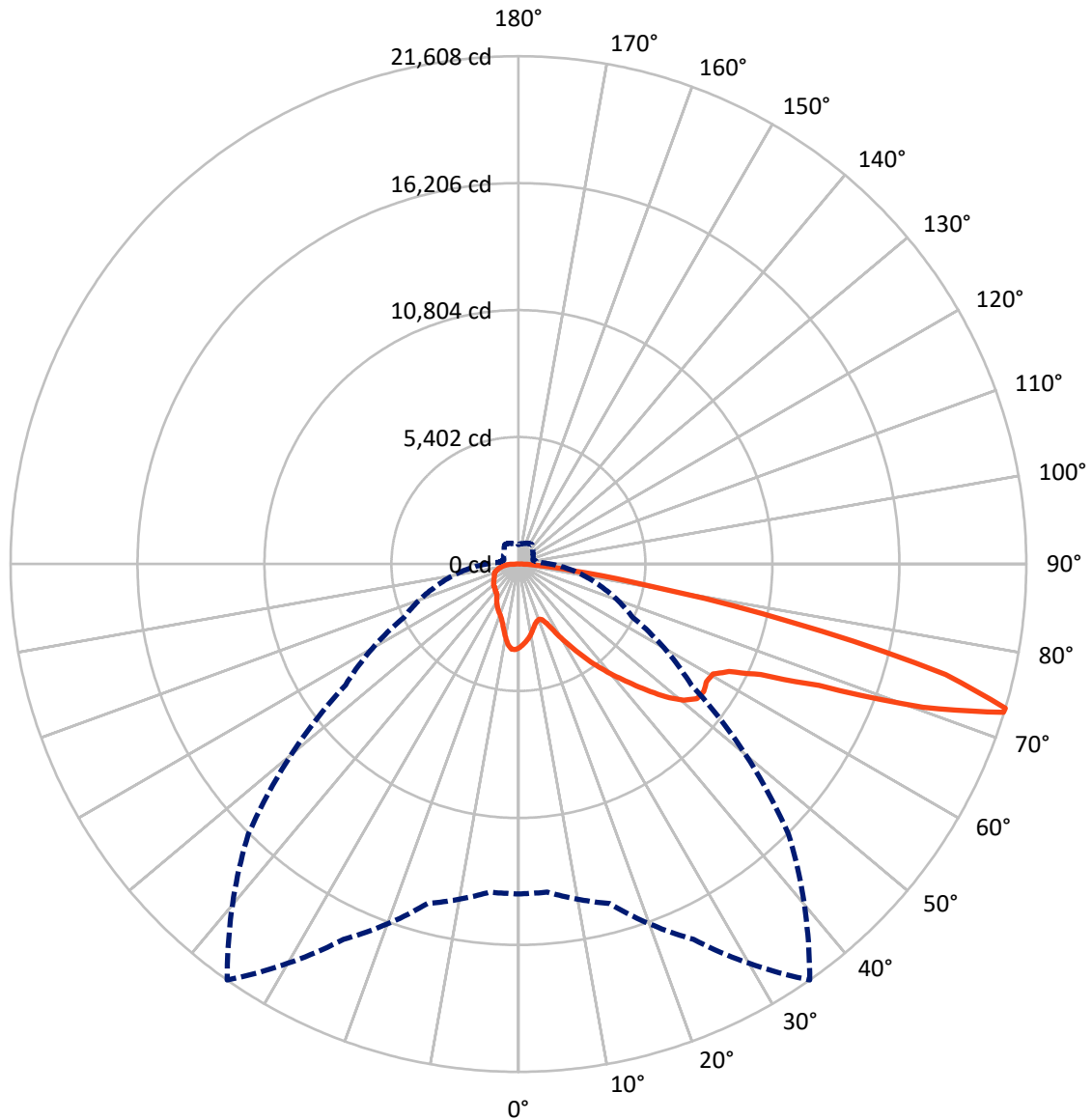


Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - Non-Cutoff

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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	4503.5	0.0	4503.5
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	19108.5	0.0	19108.5
	% Fixture	80.9	0.0	80.9
Total	Lumens	23612.0	0.0	23612.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.6	1.4
10°-20°	805.2	3.4
20°-30°	1301.8	5.5
30°-40°	2182.9	9.2
40°-50°	3364.8	14.3
50°-60°	4514.2	19.1
60°-70°	6013.9	25.5
70°-80°	4586.8	19.4
80°-90°	519.9	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°	23612.0	100.0
0°-180°	23612.0	100.0

Coefficient of Utilization



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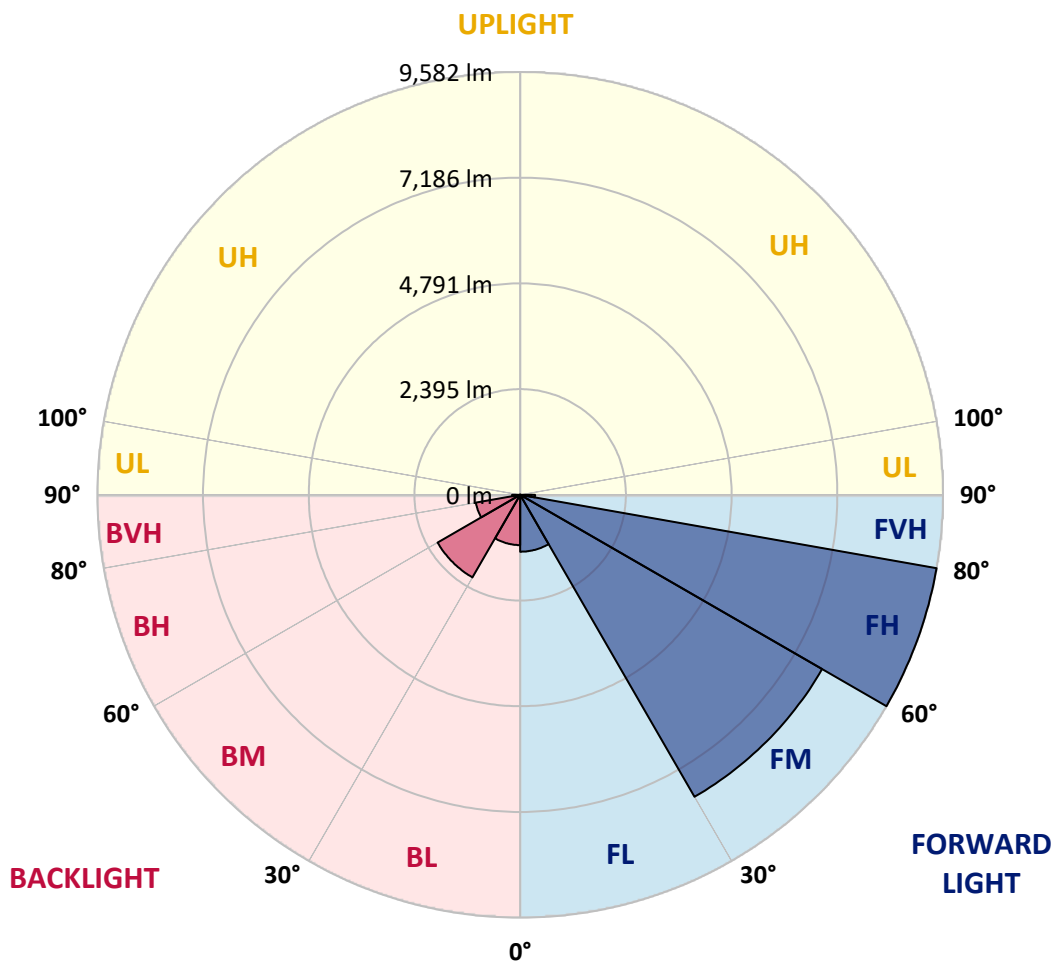
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1290.0	5.5			
FM	(30°-60°)	7900.7	33.5			
FH	(60°-80°)	9581.7	40.6			G4/12000
FVH	(80°-90°)	336.1	1.4			G3/500
BL	(0°-30°)	1139.6	4.8	B3/2500		
BM	(30°-60°)	2161.2	9.2	B2/2500		
BH	(60°-80°)	1018.9	4.3	B3/2500		G3/2500
BVH	(80°-90°)	183.8	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°	3563.8	3563.8	3563.8	3563.8	3563.8	3563.8	3563.8	3563.8	3563.8	3563.8	3563.8
2.5°	3423.2	3430.0	3422.0	3432.3	3449.3	3467.4	3479.9	3498.0	3518.4	3546.8	3553.6
5°	3262.2	3272.4	3272.4	3290.5	3323.4	3352.9	3380.1	3409.6	3452.7	3501.4	3520.7
7.5°	3085.3	3091.0	3101.2	3128.4	3176.0	3218.0	3256.5	3304.1	3363.1	3427.7	3461.7
10°	2872.1	2880.1	2895.9	2934.5	2999.1	3056.9	3112.5	3178.3	3253.1	3333.6	3376.7
12.5°	2721.3	2719.0	2725.8	2754.2	2810.9	2881.2	2961.7	3045.6	3137.4	3231.6	3283.7
15°	2670.3	2657.8	2631.7	2624.9	2655.5	2725.8	2818.8	2922.0	3032.0	3145.4	3210.0
17.5°	2702.0	2680.5	2609.1	2556.9	2552.4	2605.7	2704.3	2820.0	2947.0	3085.3	3165.8
20°	2901.6	2850.6	2674.8	2553.5	2511.5	2537.6	2623.8	2746.3	2895.9	3079.6	3182.8
22.5°	3379.0	3304.1	2931.1	2705.4	2563.7	2532.0	2596.6	2727.0	2901.6	3149.9	3281.4
25°	4074.0	3967.4	3371.0	3084.2	2791.6	2622.7	2637.4	2771.2	2982.1	3313.2	3471.9
27.5°	4622.8	4553.7	3945.9	3618.2	3206.6	2867.6	2770.1	2882.3	3146.5	3580.8	3742.9
30°	4949.4	4907.4	4560.5	4223.7	3736.1	3257.6	3024.1	3091.0	3403.9	3951.6	4085.4
32.5°	5328.1	5303.2	5133.1	4823.5	4307.6	3770.2	3426.6	3402.8	3748.6	4397.2	4458.4
35°	5720.4	5712.5	5612.7	5390.5	4921.0	4445.9	3960.6	3799.6	4123.9	4859.8	4821.3
37.5°	6085.5	6071.9	6014.1	5884.8	5562.8	5171.6	4504.9	4206.7	4528.7	5302.0	5130.8
40°	6757.9	6651.3	6452.9	6355.4	6211.4	5782.8	4936.9	4586.5	4948.3	5723.8	5398.4
42.5°	7577.7	7404.2	7034.6	6900.8	6880.4	6264.7	5231.7	4955.1	5371.2	6142.2	5661.5
45°	8222.9	8059.6	7741.0	7572.0	7646.9	6701.2	5527.7	5348.5	5806.6	6581.0	5932.5
47.5°	8911.2	8654.9	8233.1	8284.1	8447.4	7114.0	5829.3	5771.4	6284.0	7072.0	6269.2
50°	8936.1	8739.9	8555.1	8860.1	9114.1	7493.8	6206.9	6214.8	6867.9	7690.0	6717.1
52.5°	8417.9	8376.0	8669.6	9149.3	9515.5	7794.3	6636.6	6672.9	7615.1	8399.8	7209.2
55°	8236.5	8188.9	8527.9	9048.4	9569.9	8042.6	7102.6	7168.4	8518.8	9148.1	7688.8
57.5°	8678.7	8573.3	8595.9	9000.7	9437.3	8314.7	7610.6	7743.3	9500.8	9802.4	7997.3
60°	9914.6	9689.0	9260.4	9250.2	9508.7	8722.9	8198.0	8360.1	10521.3	10115.3	7877.1
62.5°	11648.3	11422.7	10619.9	10097.2	10058.6	9396.5	8919.1	8962.2	11110.9	9691.3	7143.4
65°	13524.9	13323.1	12426.2	11688.0	11332.0	10512.2	9757.0	9230.9	10918.1	8524.5	5859.9
67.5°	15802.9	15586.3	14815.3	14133.8	13791.4	12312.8	10345.5	8973.5	9694.7	6603.7	4212.4
70°	17396.0	17174.9	16871.0	17423.2	18261.1	14910.5	10421.5	7927.0	7241.0	4389.2	2535.4
72.5°	15317.6	15214.4	15768.9	18094.5	21584.5	16486.6	9420.3	5771.4	4205.6	2330.1	1467.2
73°	14034.0	14011.4	14957.0	17623.9	21608.3	16244.0	8981.5	5364.4	3606.9	2061.4	1341.4
75°	6337.3	6519.8	8592.5	13461.4	18773.6	13385.5	6321.4	3077.3	2037.6	1424.2	1012.6
77.5°	1522.8	1586.3	2688.4	6392.8	11855.8	7976.8	2864.2	1521.7	1302.8	1005.8	739.3
80°	648.6	670.1	1035.2	2361.9	5582.1	3212.3	1319.8	1019.4	901.4	701.9	518.2
82.5°	360.6	383.3	587.3	1071.5	2253.0	1095.3	805.1	709.8	593.0	422.9	336.8
85°	204.1	216.6	343.6	598.7	954.7	439.9	481.9	471.7	334.5	217.7	165.5
87.5°	96.4	104.3	165.5	277.8	374.2	172.3	244.9	269.9	209.8	132.7	86.2
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°	3563.8	3563.8	3563.8	3563.8	3563.8	3563.8	3563.8	3563.8	3563.8	3563.8
2.5°	3561.5	3581.9	3605.7	3618.2	3629.5	3643.2	3656.8	3656.8	3659.0	3660.2
5°	3536.6	3578.5	3615.9	3631.8	3635.2	3635.2	3631.8	3613.7	3597.8	3604.6
7.5°	3484.4	3545.6	3577.4	3571.7	3528.6	3478.7	3436.8	3385.8	3359.7	3355.2
10°	3409.6	3479.9	3485.5	3428.9	3322.3	3215.7	3127.2	3041.1	3000.2	2990.0
12.5°	3326.8	3391.4	3355.2	3238.4	3067.1	2911.8	2799.5	2712.2	2673.7	2663.5
15°	3259.9	3304.1	3212.3	3028.6	2813.2	2648.7	2555.8	2491.1	2463.9	2456.0
17.5°	3224.8	3233.8	3066.0	2817.7	2588.6	2451.4	2393.6	2363.0	2352.8	2347.1
20°	3241.8	3178.3	2926.5	2621.5	2405.0	2308.6	2295.0	2287.0	2284.8	2281.4
22.5°	3326.8	3161.3	2798.4	2435.6	2243.9	2202.0	2213.3	2212.2	2209.9	2207.7
25°	3478.7	3176.0	2673.7	2258.7	2109.0	2099.9	2120.4	2120.4	2111.3	2111.3
27.5°	3679.4	3206.6	2534.2	2090.9	1986.6	1987.7	2003.6	1999.0	1988.8	1982.0
30°	3924.4	3225.9	2370.9	1940.1	1872.0	1867.5	1872.0	1852.8	1822.1	1819.9
32.5°	4174.9	3202.1	2181.6	1806.3	1750.7	1740.5	1737.1	1709.9	1674.7	1664.5
35°	4401.7	3114.8	1988.8	1699.7	1635.1	1612.4	1628.3	1619.2	1587.4	1579.5
37.5°	4567.3	2952.6	1815.3	1605.6	1552.3	1546.6	1556.8	1560.2	1522.8	1514.9
40°	4678.4	2732.7	1666.8	1526.2	1536.4	1514.9	1480.8	1457.0	1445.7	1442.3
42.5°	4768.0	2503.6	1542.1	1488.8	1539.8	1477.4	1403.7	1365.2	1385.6	1394.7
45°	4871.1	2280.2	1437.8	1442.3	1522.8	1434.4	1350.5	1313.0	1321.0	1323.2
47.5°	5012.9	2008.1	1325.5	1367.5	1466.1	1404.9	1317.6	1264.3	1226.9	1209.8
50°	5209.0	1686.1	1208.7	1283.6	1410.5	1383.3	1266.5	1209.8	1140.7	1124.8
52.5°	5345.1	1385.6	1112.3	1213.3	1360.7	1340.2	1225.7	1152.0	1079.5	1065.8
55°	5271.4	1150.9	1028.4	1135.0	1294.9	1287.0	1191.7	1093.1	1036.4	1025.0
57.5°	4902.9	1002.3	963.8	1061.3	1214.4	1241.6	1146.4	1043.2	1002.3	994.4
60°	4199.9	909.4	923.0	1011.4	1148.6	1196.2	1101.0	1016.0	988.7	983.1
62.5°	3258.8	847.0	892.4	975.1	1097.6	1164.5	1076.1	1012.6	1002.3	995.5
65°	2334.7	797.1	859.5	938.9	1051.1	1135.0	1067.0	1008.0	1010.3	1004.6
67.5°	1586.3	752.9	819.8	898.0	1005.8	1108.9	1054.5	992.1	1020.5	1013.7
70°	1110.1	709.8	773.3	845.9	949.1	1072.7	1031.8	968.3	966.1	938.9
72.5°	866.3	653.1	709.8	773.3	876.5	1021.6	986.5	915.0	877.6	849.3
73°	826.6	639.5	693.9	757.4	860.6	1009.2	974.0	900.3	858.3	832.3
75°	683.7	580.5	630.4	687.1	792.6	950.2	912.8	833.4	780.1	764.2
77.5°	537.5	496.6	544.3	595.3	698.5	864.0	822.1	746.1	716.6	703.0
80°	398.0	411.6	453.6	498.9	605.5	772.2	734.8	658.8	790.3	757.4
82.5°	280.1	311.8	350.4	391.2	508.0	682.6	637.2	559.0	578.3	480.8
85°	165.5	204.1	240.4	275.5	366.2	565.8	526.1	445.6	365.1	348.1
87.5°	96.4	113.4	123.6	159.9	251.7	426.3	370.8	330.0	189.4	128.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)