

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: P269514

Luminaire Tested: **GLEON-AF-07-LED-E1-T4FT-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269514
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-07-LED-E1-T4FT-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 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: 24245.5 lumens
Efficiency: N/A
Efficacy: 107.3 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): 226
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

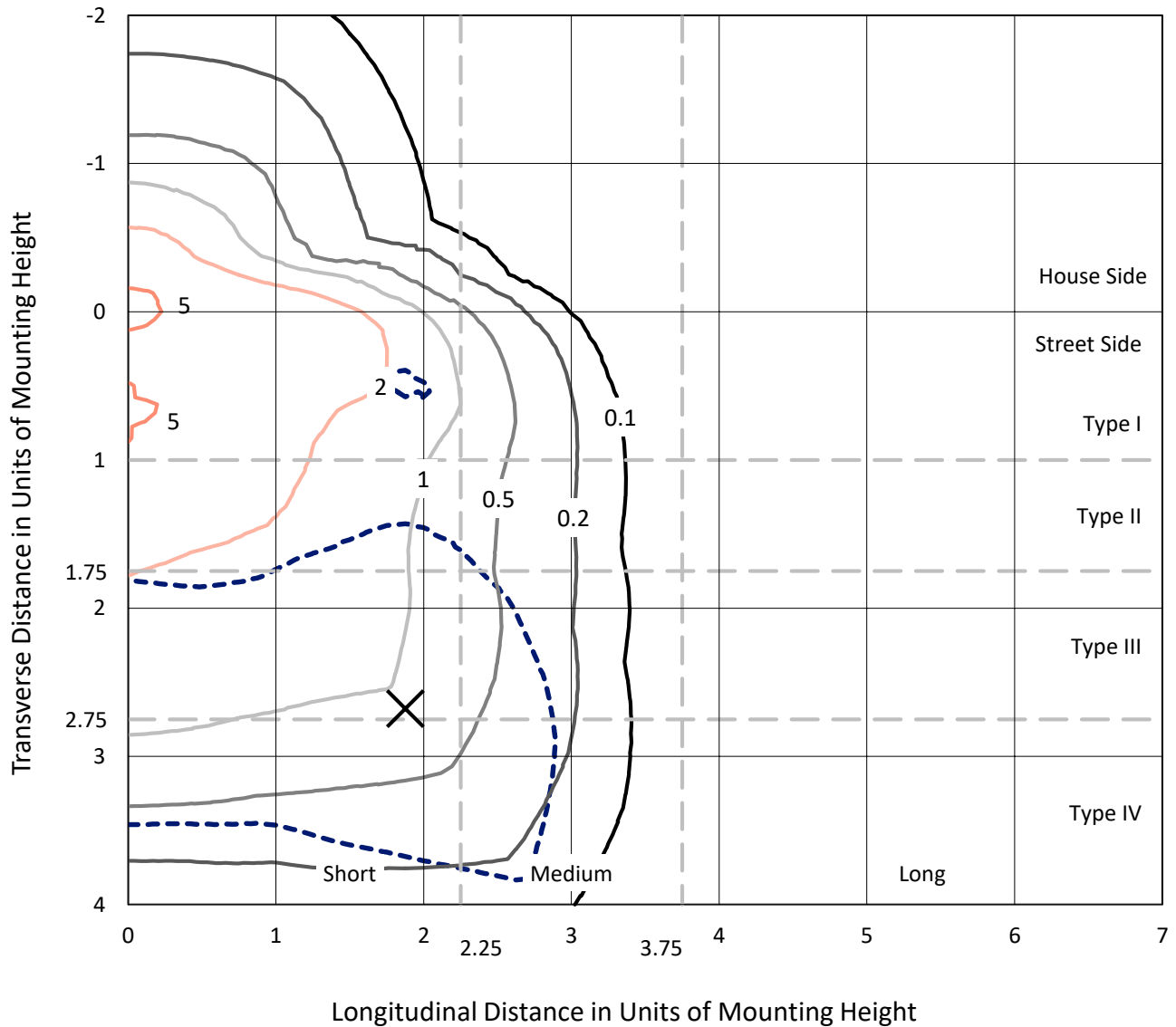


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

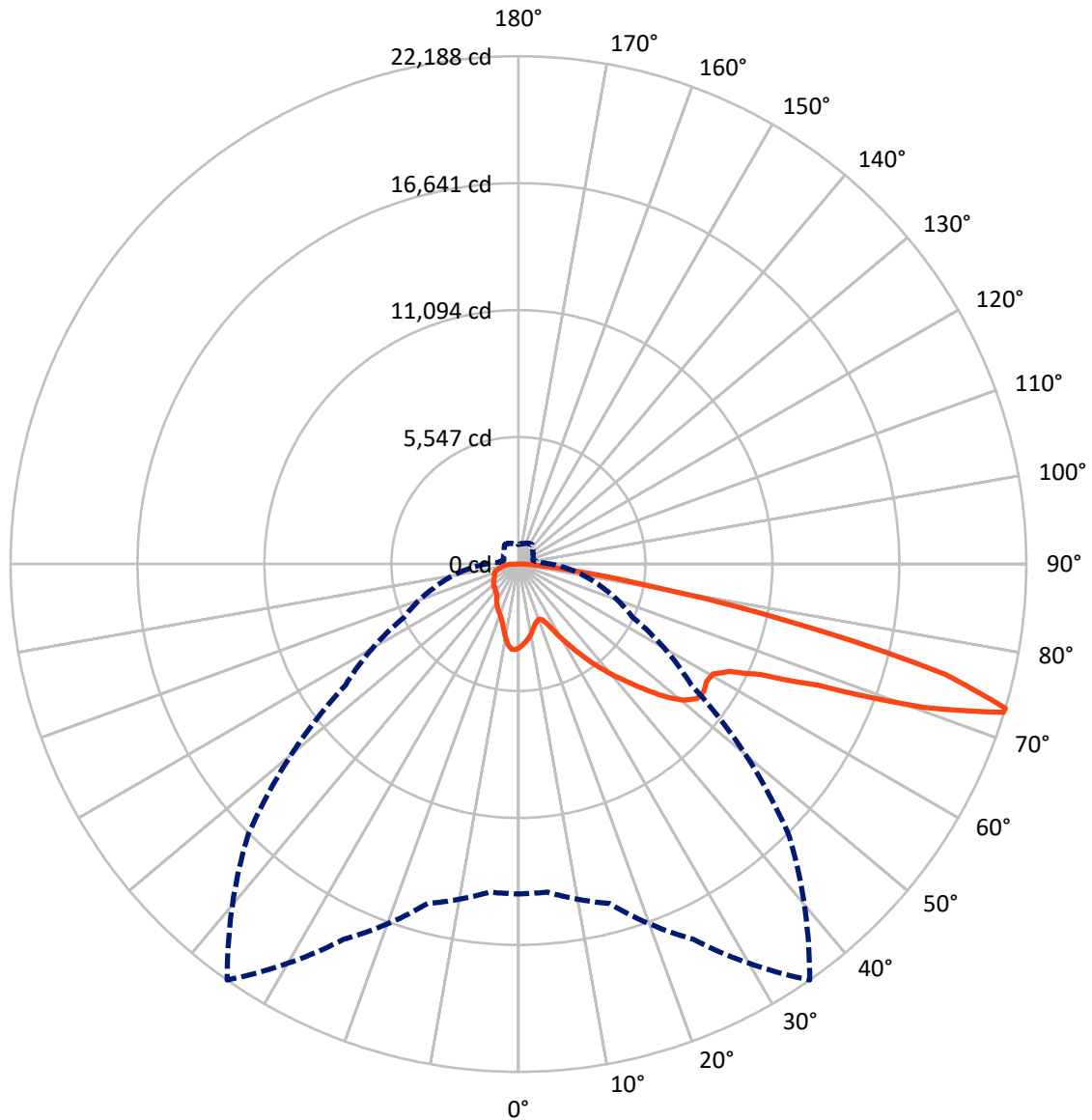


Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - Non-Cutoff

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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	4624.3	0.0	4624.3
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	19621.2	0.0	19621.2
	% Fixture	80.9	0.0	80.9
Total	Lumens	24245.5	0.0	24245.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.3	1.4
10°-20°	826.8	3.4
20°-30°	1336.7	5.5
30°-40°	2241.4	9.2
40°-50°	3455.1	14.3
50°-60°	4635.4	19.1
60°-70°	6175.2	25.5
70°-80°	4709.8	19.4
80°-90°	533.8	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°	24245.5	100.0
0°-180°	24245.5	100.0



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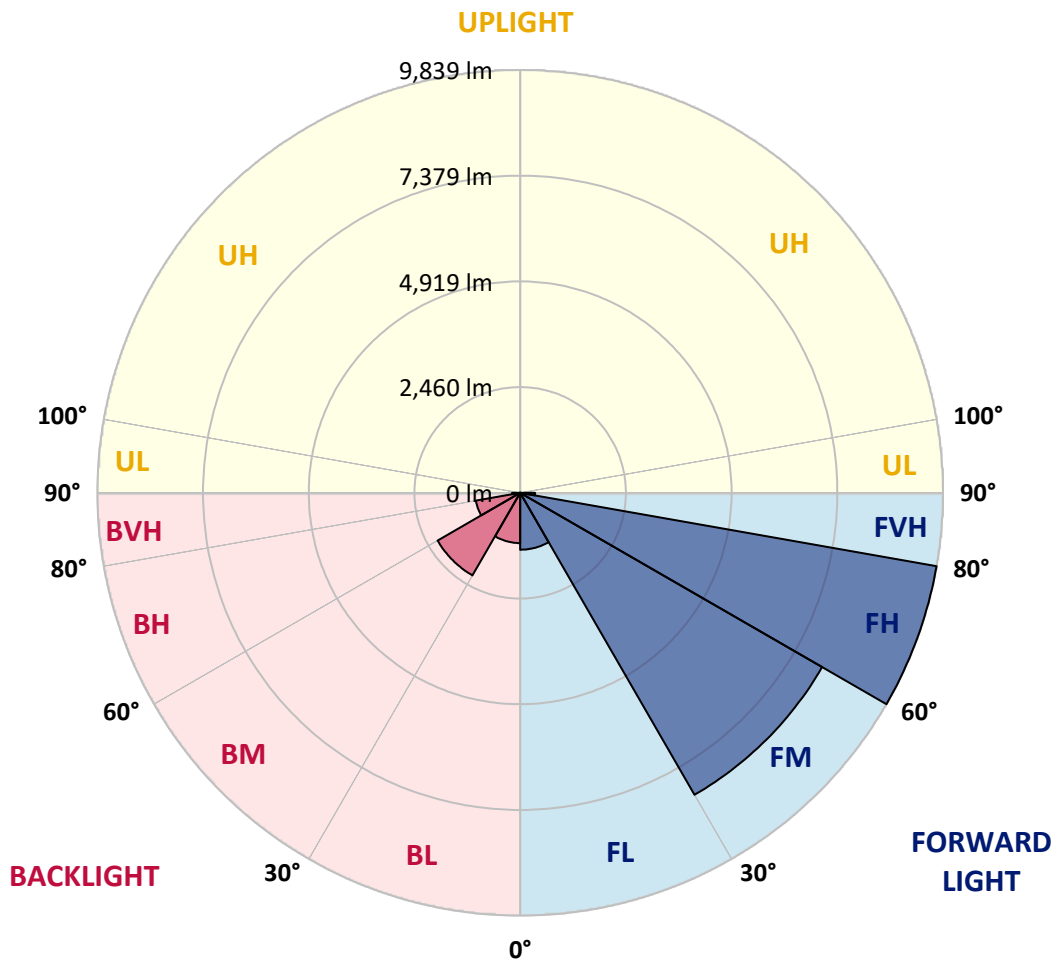
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1324.6	5.5			
FM	(30°-60°)	8112.7	33.5			
FH	(60°-80°)	9838.8	40.6			G4/12000
FVH	(80°-90°)	345.1	1.4			G3/500
BL	(0°-30°)	1170.2	4.8	B3/2500		
BM	(30°-60°)	2219.2	9.2	B2/2500		
BH	(60°-80°)	1046.2	4.3	B3/2500		G3/2500
BVH	(80°-90°)	188.8	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°	3659.4	3659.4	3659.4	3659.4	3659.4	3659.4	3659.4	3659.4	3659.4	3659.4	3659.4
2.5°	3515.1	3522.1	3513.9	3524.3	3541.7	3560.4	3573.3	3591.9	3612.9	3642.0	3648.9
5°	3349.7	3360.2	3360.2	3378.9	3412.7	3442.8	3470.8	3501.1	3545.3	3595.3	3615.1
7.5°	3168.1	3173.9	3184.4	3212.2	3261.1	3304.2	3343.9	3392.8	3453.4	3519.6	3554.7
10°	2949.1	2957.3	2973.6	3013.3	3079.6	3138.9	3196.0	3263.5	3340.3	3423.0	3467.3
12.5°	2794.4	2792.0	2798.9	2828.1	2886.3	2958.5	3041.1	3127.3	3221.6	3318.2	3371.8
15°	2741.9	2729.1	2702.3	2695.4	2726.7	2798.9	2894.5	3000.3	3113.3	3229.8	3296.2
17.5°	2774.5	2752.3	2679.0	2625.4	2620.8	2675.6	2776.9	2895.6	3026.0	3168.1	3250.7
20°	2979.5	2927.0	2746.6	2622.1	2578.9	2605.8	2694.1	2819.9	2973.6	3162.3	3268.3
22.5°	3469.7	3392.8	3009.7	2778.0	2632.6	2599.9	2666.3	2800.1	2979.5	3234.4	3369.5
25°	4183.3	4074.0	3461.4	3167.0	2866.5	2692.9	2708.2	2845.6	3062.1	3402.2	3565.2
27.5°	4746.9	4675.9	4051.7	3715.3	3292.6	2944.6	2844.5	2959.6	3230.9	3676.9	3843.4
30°	5082.3	5039.1	4682.9	4337.0	3836.4	3345.1	3105.3	3173.9	3495.2	4057.6	4194.9
32.5°	5471.0	5445.4	5270.7	4953.0	4423.2	3871.3	3518.5	3494.0	3849.1	4515.2	4578.0
35°	5873.8	5865.8	5763.3	5535.0	5053.1	4565.2	4066.8	3901.6	4234.6	4990.3	4950.6
37.5°	6248.8	6234.9	6175.5	6042.7	5712.1	5310.4	4625.8	4319.6	4650.3	5444.3	5268.5
40°	6939.2	6829.9	6626.1	6525.8	6378.1	5937.9	5069.3	4709.6	5081.1	5877.4	5543.3
42.5°	7780.9	7603.0	7223.4	7085.9	7065.0	6432.8	5372.1	5088.0	5515.4	6307.0	5813.4
45°	8443.4	8275.8	7948.7	7775.2	7852.1	6881.0	5676.0	5492.0	5962.4	6757.6	6091.6
47.5°	9150.2	8887.1	8453.9	8506.4	8674.0	7304.8	5985.6	5926.3	6452.5	7261.8	6437.4
50°	9175.8	8974.4	8784.6	9097.9	9358.6	7694.9	6373.4	6381.6	7052.1	7896.3	6897.4
52.5°	8643.9	8600.7	8902.3	9394.7	9770.9	8003.4	6814.6	6851.9	7819.4	8625.2	7402.7
55°	8457.5	8408.6	8756.7	9291.1	9826.6	8258.4	7293.2	7360.7	8747.4	9393.5	7895.2
57.5°	8911.5	8803.3	8826.6	9242.2	9690.5	8537.9	7814.9	7951.0	9755.8	10065.4	8211.9
60°	10180.8	9949.0	9508.9	9498.4	9763.9	8957.0	8417.8	8584.5	10803.6	10386.7	8088.3
62.5°	11960.9	11729.2	10904.9	10368.1	10328.5	9648.5	9158.4	9202.6	11409.1	9951.3	7335.1
65°	13887.7	13680.6	12759.5	12001.6	11636.0	10794.3	10018.8	9478.6	11211.0	8753.3	6017.0
67.5°	16227.0	16004.6	15212.7	14513.0	14161.4	12643.1	10623.0	9214.3	9954.7	6780.9	4325.3
70°	17862.7	17635.6	17323.6	17890.6	18751.1	15310.6	10701.1	8139.6	7435.2	4507.1	2603.4
72.5°	15728.6	15622.7	16191.9	18580.0	22163.7	16929.0	9672.9	5926.3	4318.4	2392.6	1506.5
73°	14410.6	14387.3	15358.3	18096.7	22188.1	16679.8	9222.4	5508.2	3703.6	2116.6	1377.5
75°	6507.3	6694.8	8823.2	13822.6	19277.4	13744.5	6491.1	3159.9	2092.2	1462.4	1039.7
77.5°	1563.7	1628.8	2760.5	6564.4	12174.0	8190.8	2941.1	1562.5	1337.8	1032.7	759.1
80°	666.0	688.1	1063.1	2425.2	5731.8	3298.4	1355.3	1046.7	925.7	720.7	532.1
82.5°	370.2	393.5	603.1	1100.2	2313.4	1124.7	826.7	728.9	609.0	434.3	345.8
85°	209.6	222.4	352.8	614.8	980.3	451.8	494.8	484.4	343.4	223.6	170.0
87.5°	99.0	107.1	170.0	285.2	384.2	177.0	251.4	277.0	215.5	136.3	88.6
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°	3659.4	3659.4	3659.4	3659.4	3659.4	3659.4	3659.4	3659.4	3659.4	3659.4
2.5°	3657.1	3678.0	3702.5	3715.3	3727.0	3740.9	3754.8	3754.8	3757.3	3758.4
5°	3631.5	3674.5	3713.0	3729.3	3732.7	3732.7	3729.3	3710.5	3694.3	3701.3
7.5°	3577.9	3640.8	3673.3	3667.6	3623.4	3572.1	3529.0	3476.6	3449.9	3445.2
10°	3501.1	3573.3	3579.0	3520.8	3411.5	3302.0	3211.1	3122.7	3080.7	3070.2
12.5°	3416.1	3482.4	3445.2	3325.3	3149.5	2989.9	2874.7	2785.0	2745.4	2735.0
15°	3347.4	3392.8	3298.4	3109.8	2888.6	2719.8	2624.4	2558.0	2530.0	2521.9
17.5°	3311.3	3320.6	3148.3	2893.4	2658.2	2517.2	2457.9	2426.4	2415.9	2410.2
20°	3328.7	3263.5	3005.1	2692.0	2469.5	2370.4	2356.6	2348.3	2346.1	2342.6
22.5°	3416.1	3246.0	2873.5	2500.9	2304.2	2261.0	2272.7	2271.5	2269.2	2267.0
25°	3572.1	3261.1	2745.4	2319.3	2165.6	2156.3	2177.2	2177.2	2167.9	2167.9
27.5°	3778.1	3292.6	2602.2	2146.9	2039.8	2040.9	2057.3	2052.6	2042.1	2035.2
30°	4029.6	3312.4	2434.5	1992.1	1922.3	1917.6	1922.3	1902.5	1871.0	1868.7
32.5°	4287.0	3287.9	2240.2	1854.7	1797.7	1787.2	1783.8	1755.7	1719.6	1709.1
35°	4519.8	3198.3	2042.1	1745.2	1678.9	1655.7	1671.9	1662.7	1630.1	1621.9
37.5°	4689.8	3031.8	1864.1	1648.7	1594.0	1588.2	1598.7	1602.0	1563.7	1555.5
40°	4804.0	2805.9	1711.5	1567.2	1577.7	1555.5	1520.7	1496.1	1484.4	1480.9
42.5°	4895.9	2570.8	1583.4	1528.7	1581.1	1517.1	1441.4	1401.8	1422.7	1432.1
45°	5001.9	2341.4	1476.4	1480.9	1563.7	1472.9	1386.7	1348.3	1356.4	1358.7
47.5°	5147.4	2062.0	1361.1	1404.1	1505.4	1442.6	1352.8	1298.2	1259.8	1242.4
50°	5348.8	1731.4	1241.2	1318.1	1448.3	1420.5	1300.6	1242.4	1171.3	1155.0
52.5°	5488.6	1422.7	1142.1	1245.8	1397.1	1376.3	1258.6	1183.0	1108.4	1094.5
55°	5412.8	1181.8	1056.0	1165.6	1329.6	1321.4	1223.8	1122.4	1064.2	1052.5
57.5°	5034.5	1029.3	989.7	1089.7	1246.9	1275.0	1177.0	1071.1	1029.3	1021.2
60°	4312.6	933.8	947.7	1038.6	1179.5	1228.3	1130.5	1043.2	1015.3	1009.4
62.5°	3346.1	869.6	916.4	1001.3	1127.1	1195.7	1104.9	1039.7	1029.3	1022.2
65°	2397.2	818.4	882.6	964.1	1079.4	1165.6	1095.7	1035.0	1037.5	1031.6
67.5°	1628.8	773.1	841.8	922.1	1032.7	1138.7	1082.7	1018.8	1047.9	1040.9
70°	1139.9	728.9	794.0	868.7	974.5	1101.4	1059.6	994.3	992.0	964.1
72.5°	889.5	670.7	728.9	794.0	900.0	1049.0	1013.0	939.5	901.2	872.1
73°	848.8	656.8	712.5	777.8	883.8	1036.3	1000.2	924.4	881.3	854.6
75°	702.0	596.1	647.4	705.6	813.9	975.6	937.2	855.7	801.1	784.7
77.5°	551.9	510.0	558.8	611.2	717.1	887.2	844.0	766.2	735.8	721.9
80°	408.6	422.7	465.7	512.4	621.7	792.9	754.4	676.5	811.4	777.8
82.5°	287.5	320.2	359.9	401.7	521.6	700.9	654.3	573.9	593.8	493.7
85°	170.0	209.6	246.9	283.0	376.1	580.9	540.2	457.5	375.0	357.4
87.5°	99.0	116.4	126.9	164.2	258.5	437.7	380.7	338.8	194.5	131.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)