

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: P192323

Luminaire Tested: **GLEON-AF-05-LED-E1-T4FT-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192323
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-05-LED-E1-T4FT-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 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: 24181 lumens
Efficiency: N/A
Efficacy: 115.1 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): 210
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

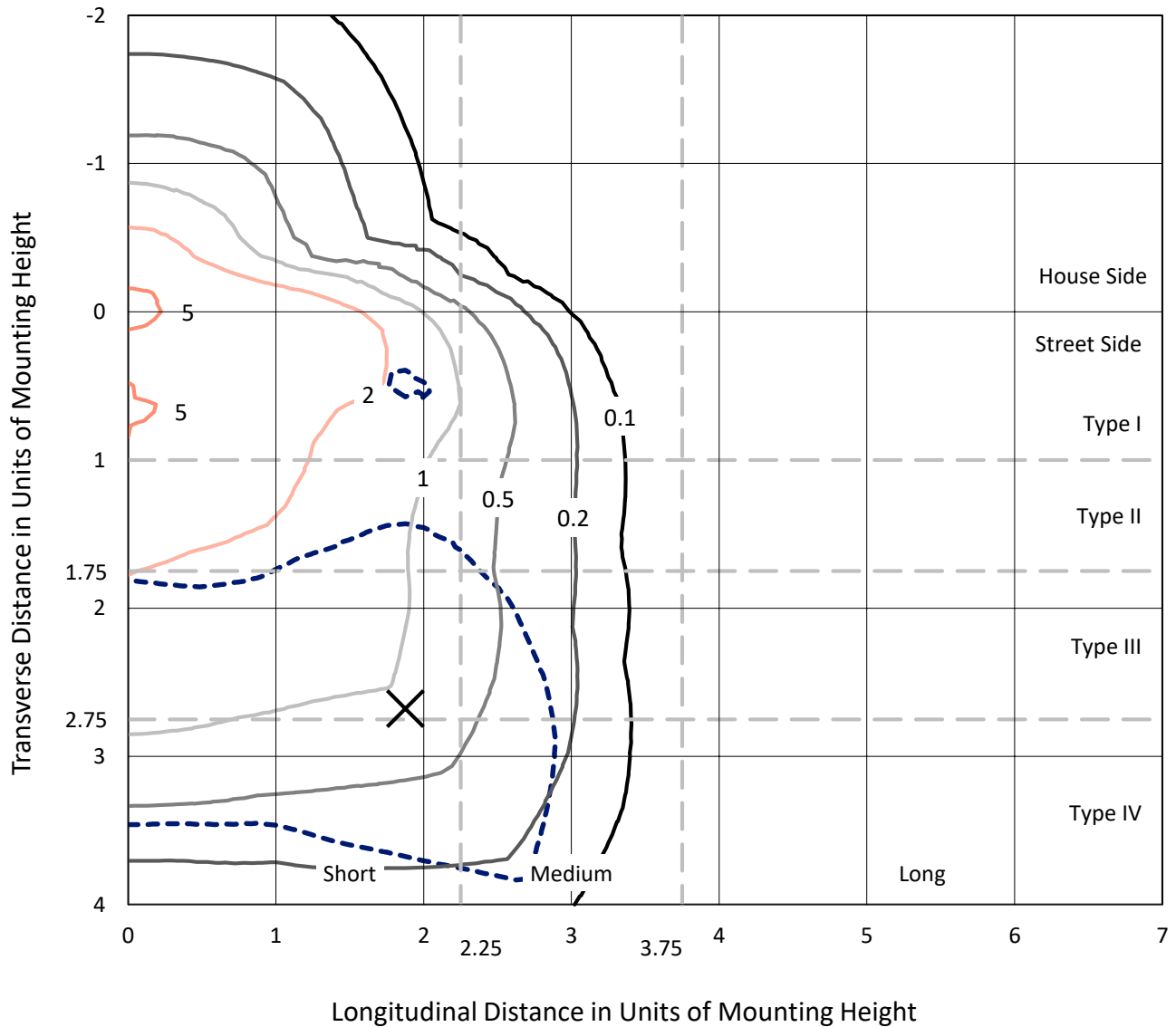


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

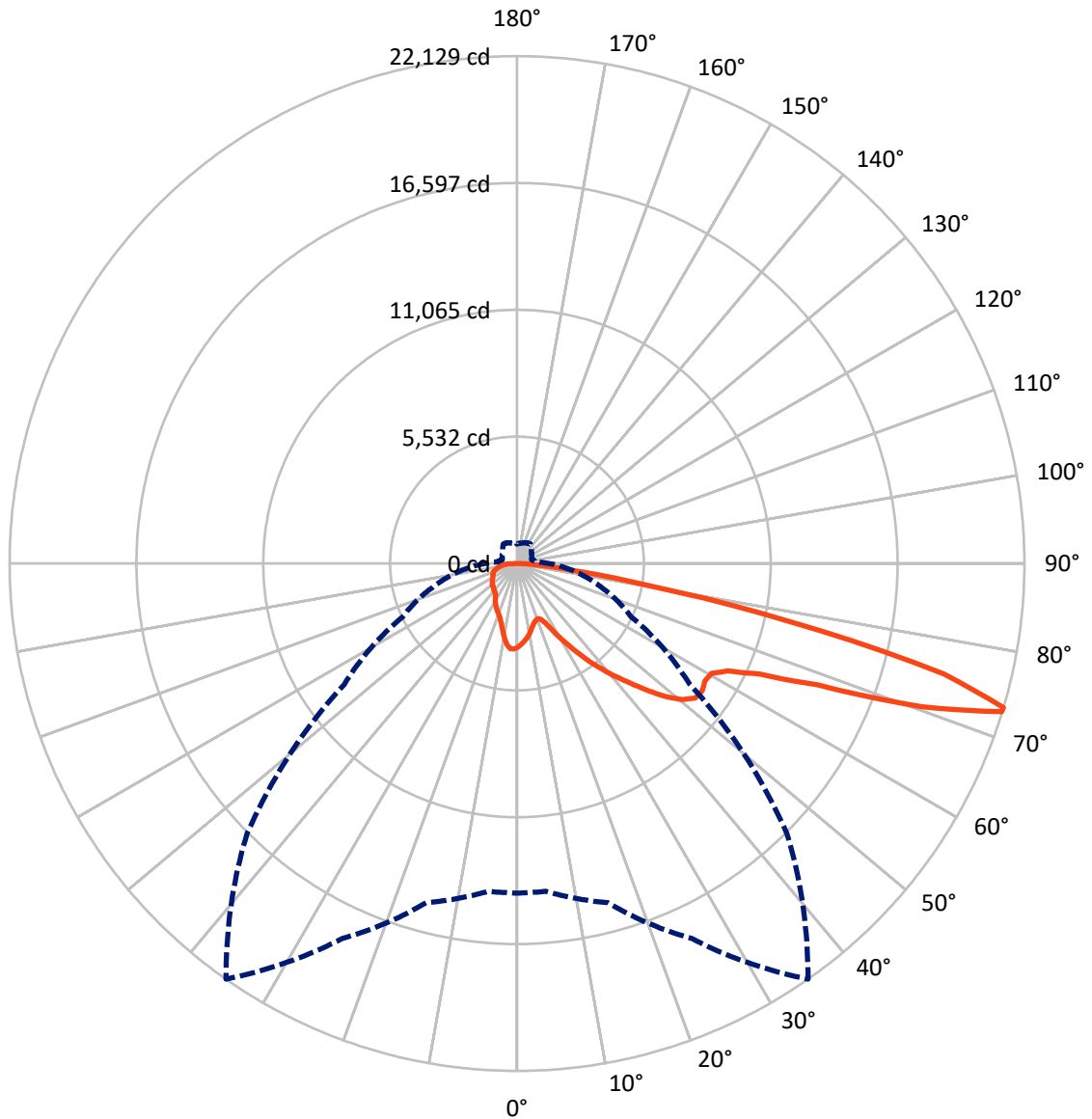


Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - Non-Cutoff

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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
House Side	Lumens	4612.0	0.0	4612.0
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	19569.0	0.0	19569.0
	% Fixture	80.9	0.0	80.9
Total	Lumens	24181.0	0.0	24181.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.4	1.4
10°-20°	824.6	3.4
20°-30°	1333.1	5.5
30°-40°	2235.5	9.2
40°-50°	3445.9	14.3
50°-60°	4623.0	19.1
60°-70°	6158.8	25.5
70°-80°	4697.3	19.4
80°-90°	532.4	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°	24181.0	100.0
0°-180°	24181.0	100.0



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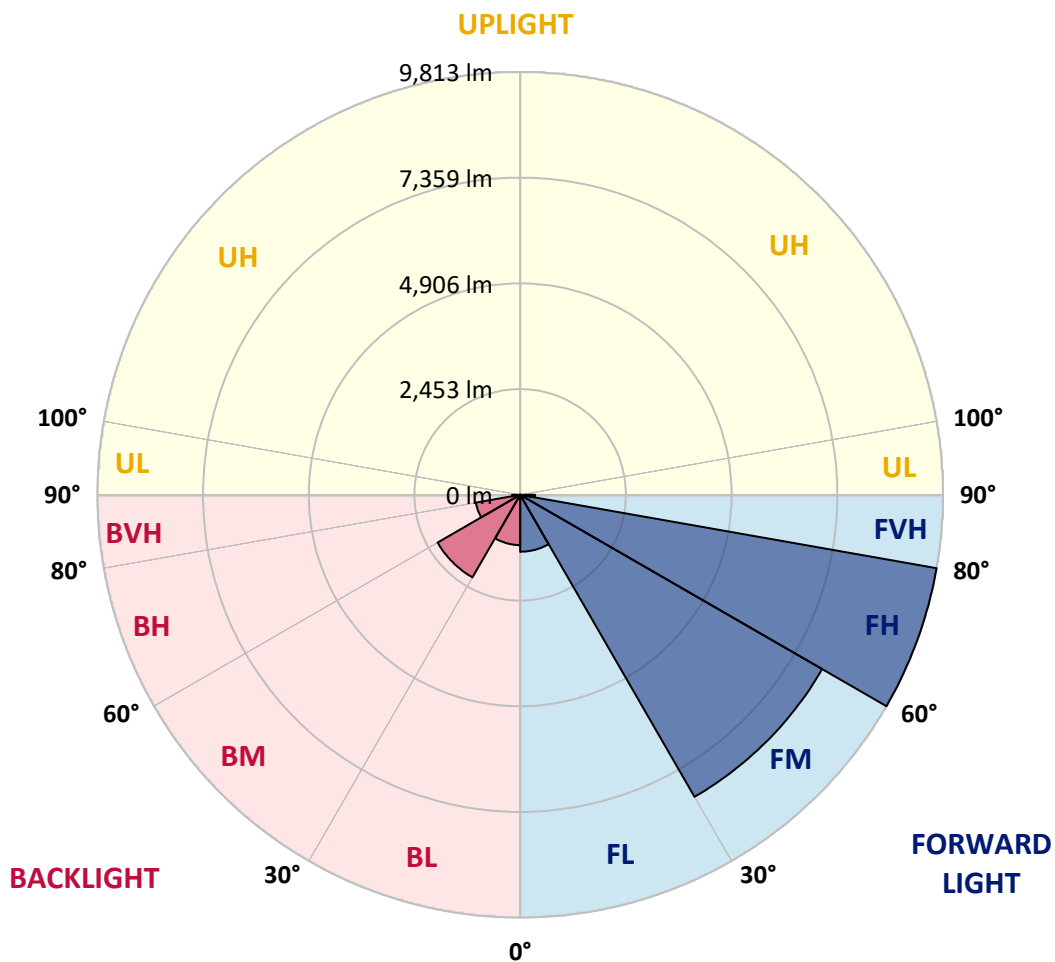
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1321.1	5.5			
FM	(30°-60°)	8091.1	33.5			
FH	(60°-80°)	9812.6	40.6			G4/12000
FVH	(80°-90°)	344.2	1.4			G3/500
BL	(0°-30°)	1167.1	4.8	B3/2500		
BM	(30°-60°)	2213.2	9.2	B2/2500		
BH	(60°-80°)	1043.4	4.3	B3/2500		G3/2500
BVH	(80°-90°)	188.3	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°	3649.7	3649.7	3649.7	3649.7	3649.7	3649.7	3649.7	3649.7	3649.7	3649.7	3649.7
2.5°	3505.7	3512.6	3504.5	3515.0	3532.4	3551.0	3563.7	3582.3	3603.2	3632.2	3639.2
5°	3340.8	3351.2	3351.2	3369.8	3403.5	3433.7	3461.5	3491.7	3535.9	3585.8	3605.5
7.5°	3159.6	3165.4	3175.9	3203.8	3252.5	3295.5	3335.0	3383.7	3444.1	3510.3	3545.2
10°	2941.3	2949.5	2965.7	3005.2	3071.4	3130.6	3187.5	3254.9	3331.5	3413.9	3458.1
12.5°	2786.9	2784.6	2791.5	2820.6	2878.6	2950.6	3033.1	3119.0	3213.1	3309.4	3362.8
15°	2734.6	2721.9	2695.2	2688.2	2719.5	2791.5	2886.8	2992.4	3105.1	3221.2	3287.4
17.5°	2767.1	2745.1	2671.9	2618.5	2613.9	2668.4	2769.5	2887.9	3018.0	3159.6	3242.1
20°	2971.5	2919.3	2739.3	2615.0	2572.1	2598.8	2687.0	2812.4	2965.7	3153.8	3259.5
22.5°	3460.4	3383.7	3001.7	2770.6	2625.5	2593.0	2659.2	2792.7	2971.5	3225.8	3360.5
25°	4172.2	4063.1	3452.3	3158.5	2858.9	2685.9	2701.0	2838.0	3054.0	3393.0	3555.6
27.5°	4734.2	4663.4	4041.0	3705.4	3283.9	2936.7	2836.8	2951.8	3222.3	3667.1	3833.1
30°	5068.7	5025.7	4670.4	4325.5	3826.2	3336.1	3096.9	3165.4	3485.9	4046.8	4183.8
32.5°	5456.5	5431.0	5256.8	4939.8	4411.4	3861.0	3509.2	3484.8	3838.9	4503.1	4565.9
35°	5858.3	5850.1	5748.0	5520.4	5039.6	4553.1	4056.1	3891.2	4223.3	4976.9	4937.4
37.5°	6232.2	6218.2	6159.0	6026.6	5696.9	5296.3	4613.5	4308.1	4637.8	5429.8	5254.4
40°	6920.8	6811.6	6608.4	6508.5	6361.1	5922.1	5055.9	4697.1	5067.5	5861.8	5528.5
42.5°	7760.3	7582.7	7204.1	7067.1	7046.2	6415.7	5357.8	5074.5	5500.6	6290.2	5797.9
45°	8421.1	8253.8	7927.5	7754.5	7831.2	6862.7	5660.9	5477.4	5946.5	6739.6	6075.4
47.5°	9125.9	8863.5	8431.5	8483.8	8651.0	7285.4	5969.7	5910.5	6435.4	7242.4	6420.3
50°	9151.4	8950.6	8761.3	9073.6	9333.8	7674.4	6356.4	6364.6	7033.4	7875.3	6879.0
52.5°	8620.8	8577.8	8878.6	9369.8	9744.8	7982.1	6796.5	6833.7	7798.6	8602.2	7382.9
55°	8435.0	8386.2	8733.4	9266.4	9800.6	8236.4	7273.8	7341.1	8724.1	9368.6	7874.1
57.5°	8887.9	8779.9	8803.1	9217.6	9664.7	8515.1	7794.0	7929.9	9729.7	10038.6	8190.0
60°	10153.6	9922.5	9483.6	9473.1	9737.9	8933.1	8395.5	8561.6	10774.8	10359.1	8066.9
62.5°	11929.0	11698.0	10875.8	10340.5	10301.0	9622.9	9134.0	9178.2	11378.6	9924.8	7315.6
65°	13850.8	13644.1	12725.6	11969.7	11605.1	10765.5	9992.2	9453.4	11181.2	8729.9	6001.1
67.5°	16183.7	15961.9	15172.3	14474.4	14123.7	12609.5	10594.8	9189.8	9928.3	6762.9	4313.9
70°	17815.2	17588.8	17277.6	17843.1	18701.2	15269.8	10672.6	8118.0	7415.4	4495.0	2596.5
72.5°	15686.7	15581.0	16148.9	18530.5	22104.7	16883.9	9647.3	5910.5	4306.9	2386.3	1502.6
73°	14372.2	14349.0	15317.4	18048.6	22129.1	16635.4	9197.9	5493.7	3693.8	2111.1	1373.7
75°	6490.0	6676.9	8799.6	13785.8	19226.1	13708.0	6473.7	3151.5	2086.7	1458.5	1037.0
77.5°	1559.5	1624.5	2753.2	6546.9	12141.5	8169.1	2933.2	1558.3	1334.2	1030.0	757.1
80°	664.2	686.3	1060.2	2418.8	5716.6	3289.7	1351.6	1043.9	923.2	718.8	530.7
82.5°	369.3	392.5	601.5	1097.3	2307.3	1121.7	824.5	726.9	607.3	433.1	344.9
85°	209.0	221.8	351.8	613.1	977.7	450.5	493.5	483.1	342.6	223.0	169.5
87.5°	98.7	106.8	169.5	284.5	383.2	176.5	250.8	276.4	214.8	135.9	88.3
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°	3649.7	3649.7	3649.7	3649.7	3649.7	3649.7	3649.7	3649.7	3649.7	3649.7
2.5°	3647.3	3668.2	3692.6	3705.4	3717.0	3730.9	3744.9	3744.9	3747.2	3748.4
5°	3621.8	3664.8	3703.1	3719.3	3722.8	3722.8	3719.3	3700.8	3684.5	3691.5
7.5°	3568.4	3631.1	3663.6	3657.8	3613.7	3562.6	3519.6	3467.4	3440.6	3436.0
10°	3491.7	3563.7	3569.5	3511.5	3402.3	3293.2	3202.6	3114.3	3072.5	3062.1
12.5°	3407.0	3473.2	3436.0	3316.4	3141.1	2982.0	2867.0	2777.6	2738.1	2727.7
15°	3338.5	3383.7	3289.7	3101.6	2880.9	2712.6	2617.4	2551.2	2523.3	2515.2
17.5°	3302.5	3311.8	3139.9	2885.6	2651.0	2510.5	2451.3	2419.9	2409.5	2403.7
20°	3319.9	3254.9	2997.1	2684.7	2462.9	2364.2	2350.3	2342.1	2339.8	2336.3
22.5°	3407.0	3237.4	2865.9	2494.3	2298.0	2255.1	2266.7	2265.5	2263.2	2260.9
25°	3562.6	3252.5	2738.1	2313.1	2159.8	2150.5	2171.5	2171.5	2162.2	2162.2
27.5°	3768.1	3283.9	2595.3	2141.3	2034.4	2035.6	2051.8	2047.2	2036.8	2029.8
30°	4018.9	3303.6	2428.1	1986.8	1917.1	1912.5	1917.1	1897.4	1866.1	1863.7
32.5°	4275.6	3279.2	2234.2	1849.8	1792.9	1782.4	1779.0	1751.1	1715.1	1704.6
35°	4507.8	3189.8	2036.8	1740.6	1674.5	1651.2	1667.5	1658.2	1625.7	1617.6
37.5°	4677.3	3023.8	1859.1	1644.3	1589.7	1583.9	1594.3	1597.8	1559.5	1551.4
40°	4791.1	2798.5	1707.0	1563.0	1573.4	1551.4	1516.5	1492.1	1480.5	1477.1
42.5°	4882.9	2563.9	1579.2	1524.7	1576.9	1513.0	1437.6	1398.1	1419.0	1428.3
45°	4988.5	2335.2	1472.4	1477.1	1559.5	1468.9	1383.0	1344.7	1352.8	1355.1
47.5°	5133.7	2056.5	1357.4	1400.4	1501.4	1438.7	1349.3	1294.7	1256.4	1239.0
50°	5334.6	1726.7	1237.8	1314.5	1444.5	1416.7	1297.1	1239.0	1168.2	1151.9
52.5°	5473.9	1419.0	1139.1	1242.5	1393.4	1372.5	1255.3	1179.8	1105.5	1091.5
55°	5398.4	1178.6	1053.2	1162.4	1326.1	1318.0	1220.4	1119.4	1061.3	1049.7
57.5°	5021.0	1026.5	987.0	1086.9	1243.6	1271.5	1174.0	1068.3	1026.5	1018.4
60°	4301.1	931.3	945.2	1035.8	1176.3	1225.1	1127.5	1040.4	1012.6	1006.8
62.5°	3337.3	867.4	913.9	998.6	1124.0	1192.6	1102.0	1037.0	1026.5	1019.5
65°	2390.9	816.3	880.2	961.5	1076.4	1162.4	1092.7	1032.3	1034.6	1028.8
67.5°	1624.5	771.0	839.6	919.7	1030.0	1135.7	1079.9	1016.1	1045.1	1038.1
70°	1136.8	726.9	791.9	866.3	971.9	1098.5	1056.7	991.7	989.3	961.5
72.5°	887.2	668.9	726.9	791.9	897.6	1046.2	1010.2	937.1	898.8	869.7
73°	846.5	654.9	710.7	775.7	881.4	1033.5	997.5	922.0	879.0	852.3
75°	700.2	594.5	645.6	703.7	811.7	973.1	934.8	853.5	798.9	782.7
77.5°	550.4	508.6	557.4	609.6	715.3	884.8	841.9	764.1	733.9	719.9
80°	407.6	421.5	464.5	510.9	620.1	790.8	752.5	674.7	809.4	775.7
82.5°	286.8	319.3	358.8	400.6	520.2	699.0	652.6	572.5	592.2	492.4
85°	169.5	209.0	246.2	282.2	375.1	579.4	538.8	456.4	373.9	356.5
87.5°	98.7	116.1	126.6	163.7	257.8	436.6	379.7	337.9	193.9	131.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)