

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: P300386

Luminaire Tested: **GLNA-AF-06-LED-E1-T4FT-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300386
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: GLNA-AF-06-LED-E1-T4FT-7027-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV Forward Throw OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25054.7 lumens
Efficiency: N/A
Efficacy: 100.6 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

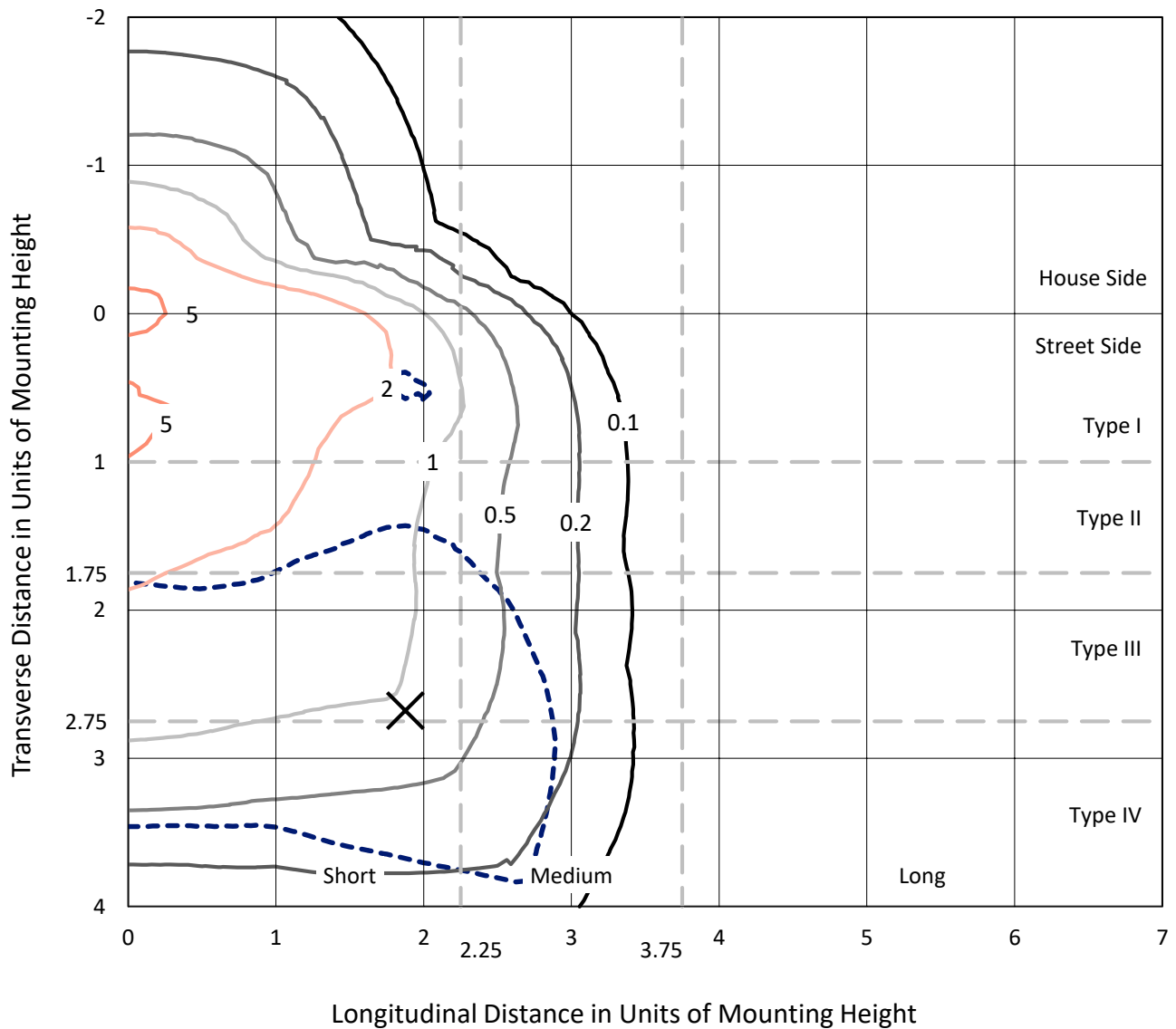


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Iso-Footcandle Lines of Horizontal Illumination

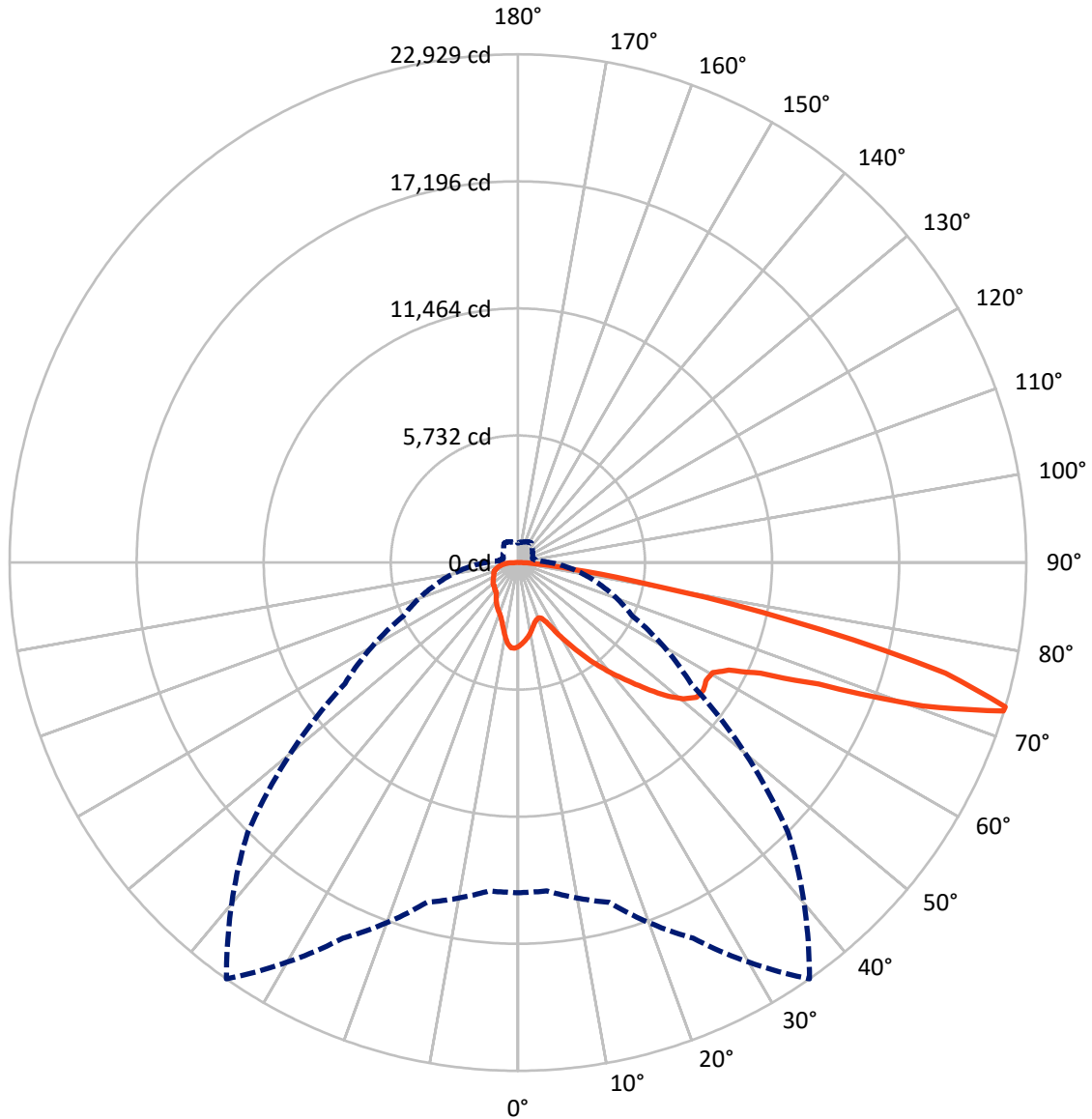
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	4778.6	0.0	4778.6
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	20276.0	0.0	20276.0
	% Fixture	80.9	0.0	80.9
Total	Lumens	25054.7	0.0	25054.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.3	1.4
10°-20°	854.4	3.4
20°-30°	1381.3	5.5
30°-40°	2316.2	9.2
40°-50°	3570.4	14.3
50°-60°	4790.0	19.1
60°-70°	6381.3	25.5
70°-80°	4867.0	19.4
80°-90°	551.7	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°	25054.7	100.0
0°-180°	25054.7	100.0

Coefficient of Utilization



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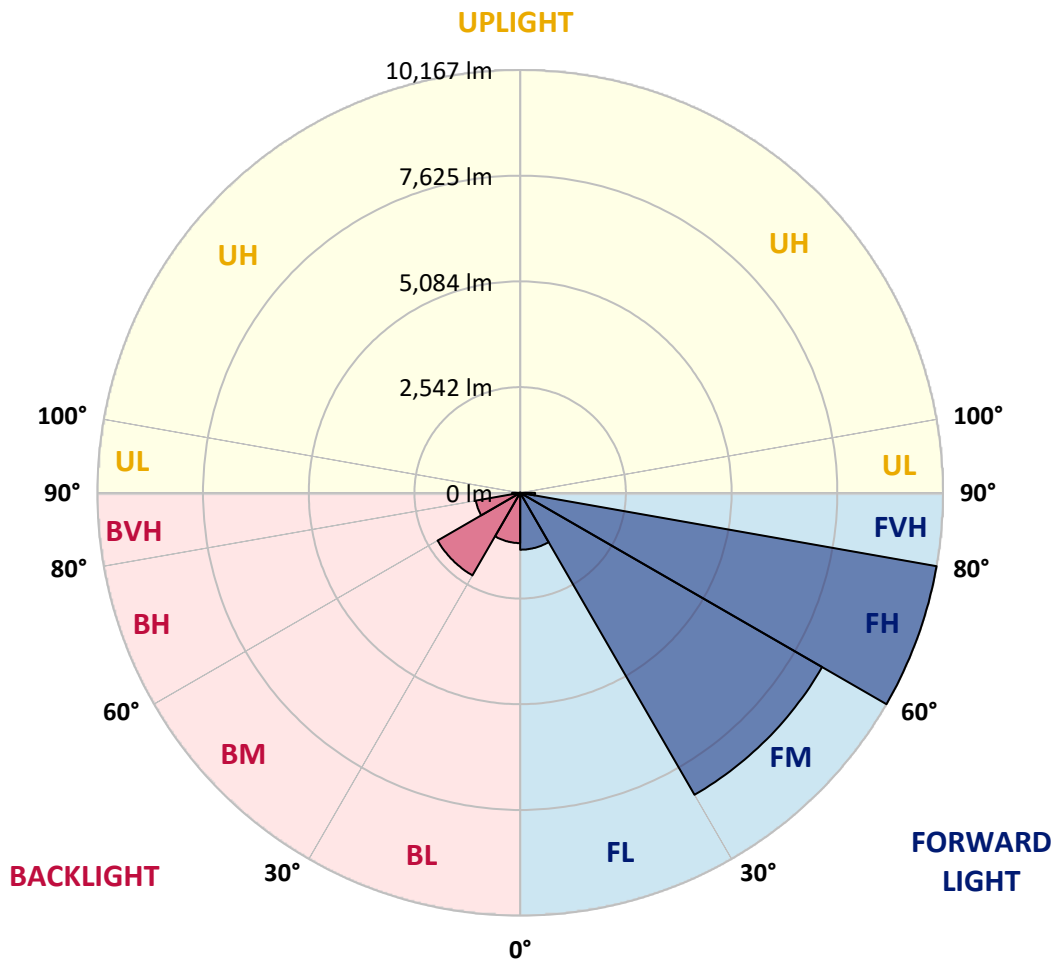
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1368.8	5.5			
FM	(30°-60°)	8383.4	33.5			
FH	(60°-80°)	10167.2	40.6			G4/12000
FVH	(80°-90°)	356.6	1.4			G3/500
BL	(0°-30°)	1209.2	4.8	B3/2500		
BM	(30°-60°)	2293.2	9.2	B2/2500		
BH	(60°-80°)	1081.1	4.3	B3/2500		G3/2500
BVH	(80°-90°)	195.1	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°	3781.5	3781.5	3781.5	3781.5	3781.5	3781.5	3781.5	3781.5	3781.5	3781.5	3781.5
2.5°	3632.3	3639.6	3631.1	3642.0	3660.0	3679.3	3692.5	3711.7	3733.4	3763.5	3770.7
5°	3461.5	3472.3	3472.3	3491.6	3526.5	3557.7	3586.6	3617.9	3663.6	3715.4	3735.8
7.5°	3273.8	3279.8	3290.6	3319.5	3370.0	3414.6	3455.5	3506.0	3568.6	3637.1	3673.2
10°	3047.6	3056.0	3072.9	3113.8	3182.4	3243.7	3302.7	3372.5	3451.9	3537.3	3583.0
12.5°	2887.6	2885.2	2892.4	2922.5	2982.6	3057.2	3142.6	3231.7	3329.1	3429.0	3484.3
15°	2833.4	2820.2	2792.5	2785.3	2817.8	2892.4	2991.1	3100.5	3217.2	3337.6	3406.1
17.5°	2867.1	2844.3	2768.5	2713.1	2708.3	2764.9	2869.5	2992.3	3127.0	3273.8	3359.2
20°	3078.9	3024.7	2838.2	2709.5	2665.0	2692.7	2784.1	2914.0	3072.9	3267.8	3377.3
22.5°	3585.4	3506.0	3110.2	2870.7	2720.3	2686.7	2755.2	2893.6	3078.9	3342.4	3481.9
25°	4322.9	4209.8	3577.0	3272.6	2962.2	2782.9	2798.5	2940.5	3164.3	3515.6	3684.1
27.5°	4905.3	4831.9	4187.0	3839.3	3402.5	3042.8	2939.3	3058.4	3338.8	3799.6	3971.6
30°	5251.8	5207.3	4839.1	4481.8	3964.4	3456.7	3208.8	3279.8	3611.9	4193.0	4335.0
32.5°	5653.6	5627.2	5446.7	5118.2	4570.8	4000.5	3635.9	3610.7	3977.6	4665.8	4730.8
35°	6069.9	6061.5	5955.6	5719.8	5221.7	4717.6	4202.6	4031.8	4375.9	5156.7	5115.8
37.5°	6457.3	6442.9	6381.5	6244.4	5902.7	5487.6	4780.1	4463.7	4805.4	5626.0	5444.3
40°	7170.8	7057.7	6847.2	6743.7	6590.9	6136.1	5238.5	4866.8	5250.6	6073.5	5728.2
42.5°	8040.7	7856.6	7464.4	7322.4	7300.8	6647.4	5551.4	5257.8	5699.4	6517.5	6007.4
45°	8725.3	8552.0	8214.0	8034.7	8114.1	7110.7	5865.4	5675.3	6161.4	6983.1	6294.9
47.5°	9455.6	9183.7	8736.1	8790.3	8963.5	7548.6	6185.4	6124.1	6667.9	7504.1	6652.3
50°	9482.1	9273.9	9077.8	9401.5	9671.0	7951.7	6586.1	6594.5	7287.5	8159.8	7127.5
52.5°	8932.2	8887.7	9199.3	9708.3	10096.9	8270.5	7042.1	7080.6	8080.4	8913.0	7649.7
55°	8739.7	8689.2	9048.9	9601.2	10154.7	8534.0	7536.6	7606.4	9039.3	9707.1	8158.6
57.5°	9209.0	9097.1	9121.1	9550.7	10013.9	8822.8	8075.6	8216.4	10081.3	10401.3	8485.9
60°	10520.4	10281.0	9826.2	9815.4	10089.7	9255.9	8698.8	8870.9	11164.1	10733.4	8358.3
62.5°	12360.0	12120.6	11268.8	10714.1	10673.2	9970.6	9464.0	9509.8	11789.7	10283.4	7579.9
65°	14351.3	14137.1	13185.4	12402.2	12024.4	11154.5	10353.2	9794.9	11585.2	9045.3	6217.9
67.5°	16768.4	16538.6	15720.5	14997.4	14634.0	13065.1	10977.6	9521.8	10287.0	7007.2	4469.7
70°	18458.8	18224.2	17901.8	18487.7	19376.9	15821.5	11058.2	8411.3	7683.4	4657.4	2690.3
72.5°	16253.5	16144.0	16732.3	19200.0	22903.3	17493.9	9995.8	6124.1	4462.5	2472.5	1556.9
73°	14891.5	14867.4	15870.9	18700.7	22928.6	17236.4	9530.2	5692.1	3827.2	2187.3	1423.3
75°	6724.4	6918.2	9117.5	14283.9	19920.7	14203.3	6707.6	3265.4	2162.1	1511.2	1074.4
77.5°	1615.8	1683.2	2852.7	6783.4	12580.2	8464.2	3039.2	1614.6	1382.4	1067.2	784.5
80°	688.2	711.1	1098.5	2506.2	5923.1	3408.5	1400.5	1081.6	956.5	744.8	549.8
82.5°	382.6	406.7	623.2	1137.0	2390.7	1162.3	854.2	753.2	629.3	448.8	357.3
85°	216.6	229.8	364.6	635.3	1013.1	466.8	511.3	500.5	354.9	231.0	175.7
87.5°	102.3	110.7	175.7	294.8	397.0	182.9	259.9	286.4	222.6	140.8	91.4
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°	3781.5	3781.5	3781.5	3781.5	3781.5	3781.5	3781.5	3781.5	3781.5	3781.5
2.5°	3779.1	3800.8	3826.0	3839.3	3851.3	3865.7	3880.2	3880.2	3882.6	3883.8
5°	3752.6	3797.2	3836.9	3853.7	3857.3	3857.3	3853.7	3834.5	3817.6	3824.8
7.5°	3697.3	3762.3	3796.0	3789.9	3744.2	3691.3	3646.8	3592.6	3565.0	3560.1
10°	3617.9	3692.5	3698.5	3638.3	3525.3	3412.2	3318.3	3226.9	3183.6	3172.7
12.5°	3530.1	3598.6	3560.1	3436.2	3254.5	3089.7	2970.6	2878.0	2837.0	2826.2
15°	3459.1	3506.0	3408.5	3213.6	2985.0	2810.6	2711.9	2643.3	2614.5	2606.0
17.5°	3421.8	3431.4	3253.3	2989.8	2746.8	2601.2	2539.9	2507.4	2496.6	2490.5
20°	3439.8	3372.5	3105.4	2781.7	2551.9	2449.6	2435.2	2426.8	2424.4	2420.8
22.5°	3530.1	3354.4	2969.4	2584.4	2381.0	2336.5	2348.6	2347.4	2345.0	2342.5
25°	3691.3	3370.0	2837.0	2396.7	2237.9	2228.2	2249.9	2249.9	2240.3	2240.3
27.5°	3904.2	3402.5	2689.1	2218.6	2107.9	2109.1	2126.0	2121.2	2110.3	2103.1
30°	4164.1	3423.0	2515.8	2058.6	1986.4	1981.6	1986.4	1966.0	1933.5	1931.1
32.5°	4430.0	3397.7	2314.9	1916.6	1857.7	1846.8	1843.2	1814.4	1777.1	1766.2
35°	4670.7	3305.1	2110.3	1803.5	1735.0	1710.9	1727.7	1718.1	1684.4	1676.0
37.5°	4846.3	3133.0	1926.3	1703.7	1647.1	1641.1	1651.9	1655.5	1615.8	1607.4
40°	4964.2	2899.6	1768.6	1619.5	1630.3	1607.4	1571.3	1546.1	1534.0	1530.4
42.5°	5059.3	2656.6	1636.3	1579.7	1633.9	1567.7	1489.5	1448.6	1470.3	1479.9
45°	5168.8	2419.6	1525.6	1530.4	1615.8	1522.0	1433.0	1393.3	1401.7	1404.1
47.5°	5319.2	2130.8	1406.5	1451.0	1555.7	1490.7	1398.1	1341.5	1301.8	1283.8
50°	5527.3	1789.1	1282.6	1362.0	1496.7	1467.9	1343.9	1283.8	1210.4	1193.5
52.5°	5671.7	1470.3	1180.3	1287.4	1443.8	1422.1	1300.6	1222.4	1145.4	1131.0
55°	5593.5	1221.2	1091.3	1204.4	1374.0	1365.6	1264.5	1159.8	1099.7	1087.7
57.5°	5202.5	1063.6	1022.7	1126.2	1288.6	1317.5	1216.4	1106.9	1063.6	1055.2
60°	4456.5	964.9	979.4	1073.2	1218.8	1269.3	1168.3	1078.0	1049.2	1043.1
62.5°	3457.9	898.8	946.9	1034.7	1164.7	1235.6	1141.8	1074.4	1063.6	1056.4
65°	2477.3	845.8	912.0	996.2	1115.3	1204.4	1132.2	1069.6	1072.0	1066.0
67.5°	1683.2	798.9	869.9	952.9	1067.2	1176.7	1118.9	1052.8	1082.8	1075.6
70°	1177.9	753.2	820.6	897.6	1007.0	1138.2	1094.9	1027.5	1025.1	996.2
72.5°	919.2	693.0	753.2	820.6	930.0	1084.0	1046.7	970.9	931.2	901.2
73°	877.1	678.6	736.3	803.7	913.2	1070.8	1033.5	955.3	910.8	883.1
75°	725.5	616.0	669.0	729.1	841.0	1008.2	968.5	884.3	827.8	810.9
77.5°	570.3	527.0	577.5	631.7	741.1	916.8	872.3	791.7	760.4	746.0
80°	422.3	436.7	481.3	529.4	642.5	819.4	779.6	699.0	838.6	803.7
82.5°	297.2	330.9	371.8	415.1	539.0	724.3	676.2	593.2	613.6	510.1
85°	175.7	216.6	255.1	292.4	388.6	600.4	558.3	472.8	387.4	369.4
87.5°	102.3	120.3	131.1	169.6	267.1	452.4	393.4	350.1	200.9	136.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)