

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: P300392

Luminaire Tested: **GLNA-AF-07-LED-E1-T4FT-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300392
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-07-LED-E1-T4FT-7027-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(7) 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: 29630 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 - G5

Input Watts (W): 295
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

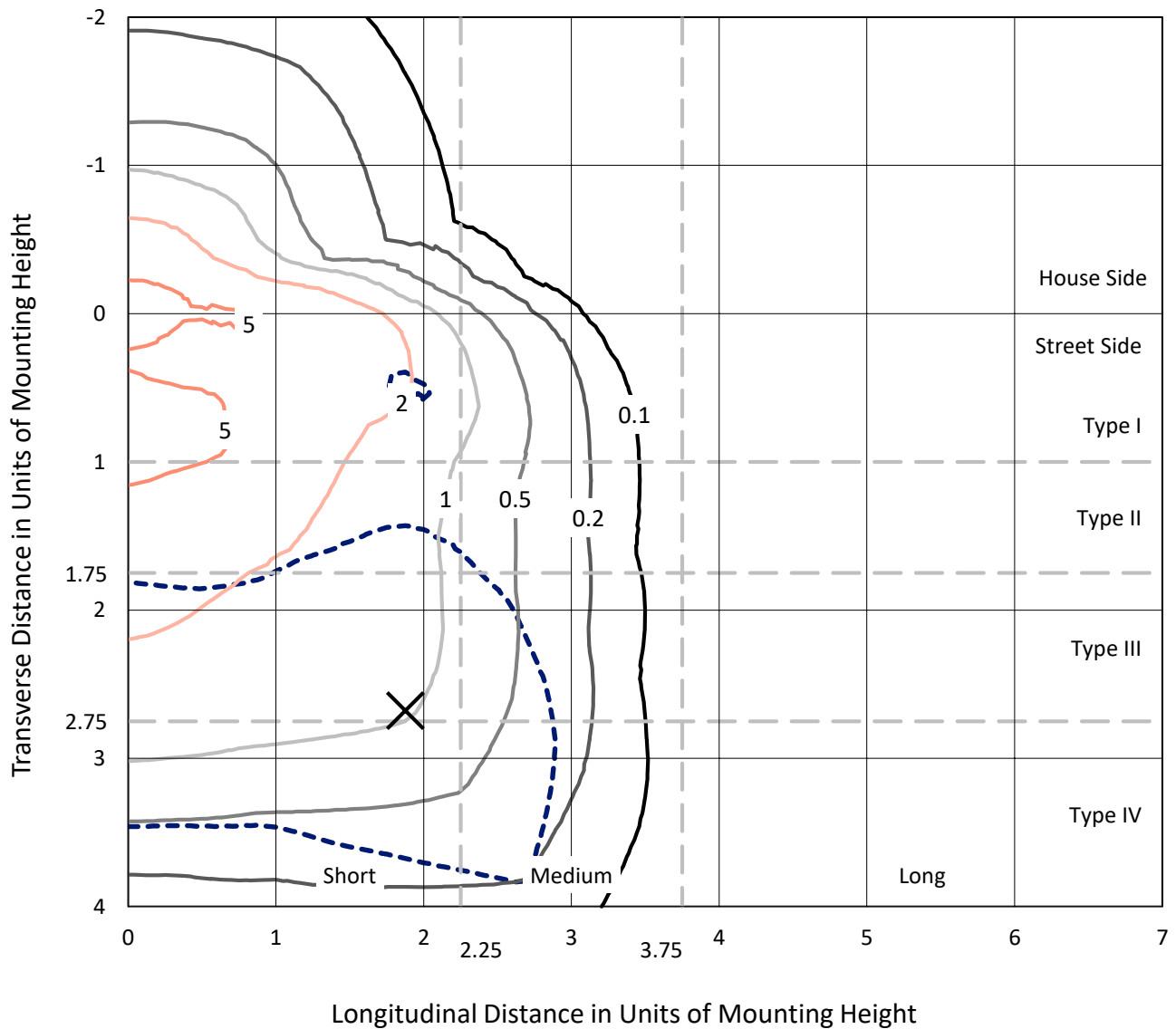


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Iso-Footcandle Lines of Horizontal Illumination

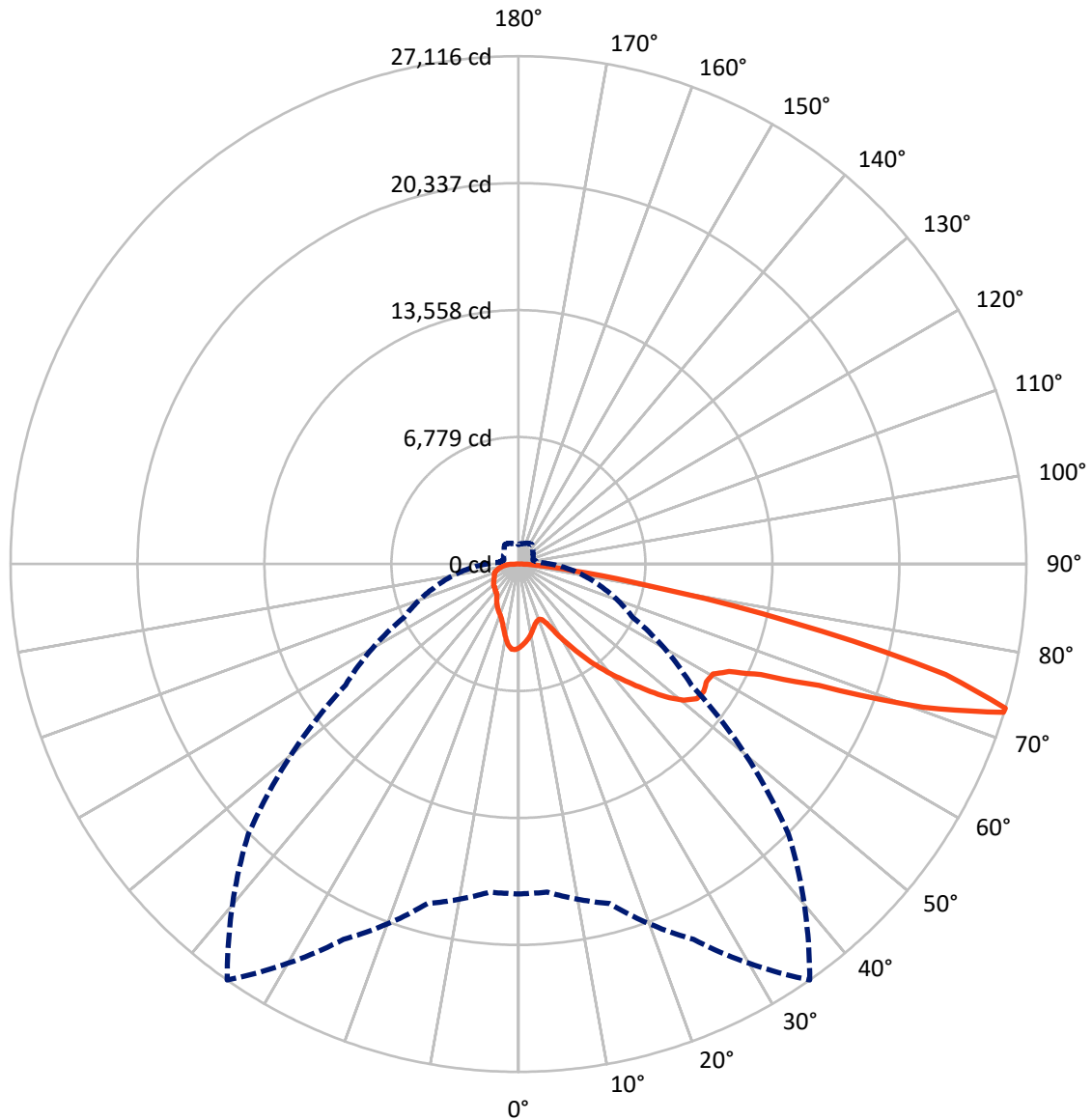
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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	5651.2	0.0	5651.2
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	23978.7	0.0	23978.7
	% Fixture	80.9	0.0	80.9
Total	Lumens	29630.0	0.0	29630.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.9	1.4
10°-20°	1010.4	3.4
20°-30°	1633.5	5.5
30°-40°	2739.2	9.2
40°-50°	4222.4	14.3
50°-60°	5664.8	19.1
60°-70°	7546.6	25.5
70°-80°	5755.8	19.4
80°-90°	652.4	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°	29630.0	100.0
0°-180°	29630.0	100.0



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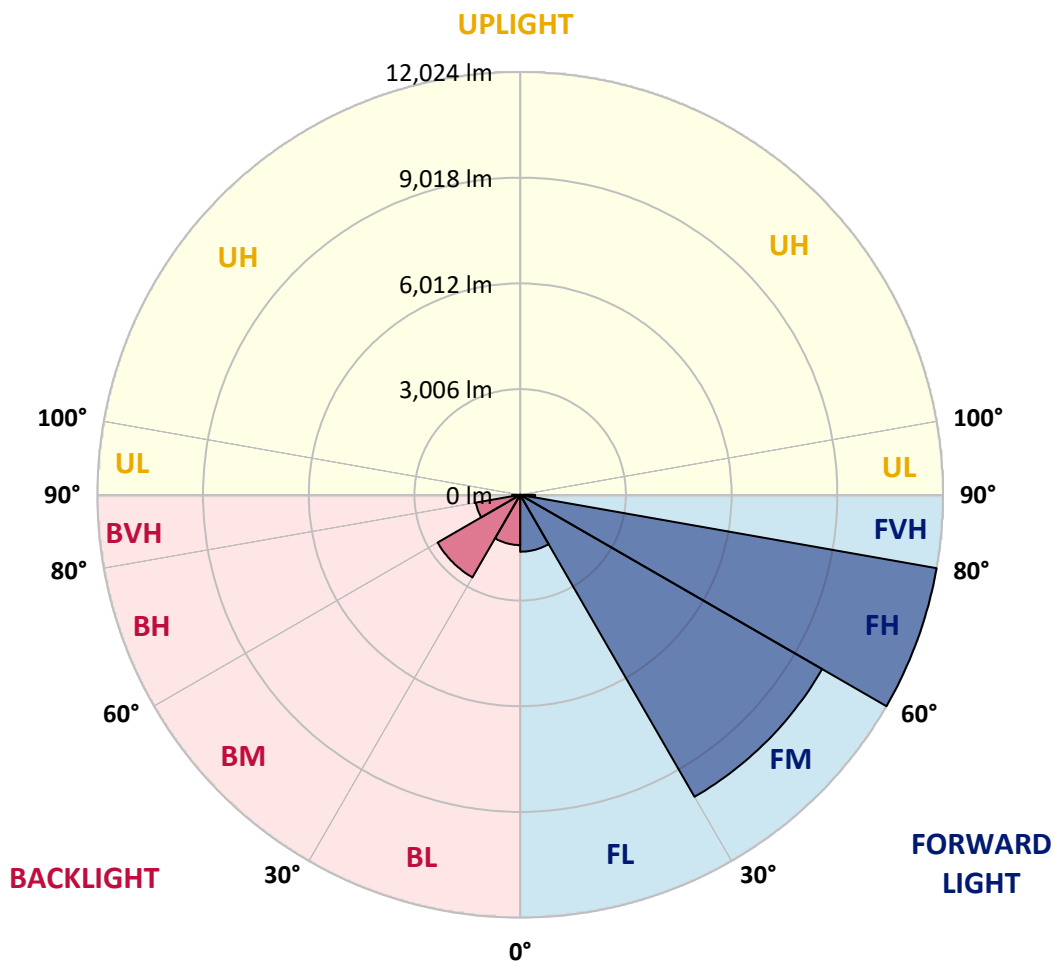
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1618.8	5.5			
FM	(30°-60°)	9914.4	33.5			
FH	(60°-80°)	12023.8	40.6			G5
FVH	(80°-90°)	421.7	1.4			G3/500
BL	(0°-30°)	1430.0	4.8	B3/2500		
BM	(30°-60°)	2712.0	9.2	B3/5000		
BH	(60°-80°)	1278.6	4.3	B3/2500		G3/2500
BVH	(80°-90°)	230.7	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4472.1	4472.1	4472.1	4472.1	4472.1	4472.1	4472.1	4472.1	4472.1	4472.1	4472.1
2.5°	4295.6	4304.2	4294.2	4307.0	4328.4	4351.1	4366.8	4389.6	4415.2	4450.7	4459.3
5°	4093.6	4106.4	4106.4	4129.2	4170.4	4207.4	4241.6	4278.6	4332.6	4393.8	4418.0
7.5°	3871.6	3878.7	3891.6	3925.7	3985.5	4038.1	4086.5	4146.2	4220.2	4301.3	4344.0
10°	3604.1	3614.1	3634.0	3682.4	3763.5	3836.1	3905.8	3988.3	4082.2	4183.2	4237.3
12.5°	3414.9	3412.0	3420.6	3456.2	3527.3	3615.5	3716.5	3821.8	3937.1	4055.2	4120.6
15°	3350.9	3335.2	3302.5	3293.9	3332.4	3420.6	3537.3	3666.7	3804.8	3947.0	4028.2
17.5°	3390.7	3363.7	3274.0	3208.6	3202.9	3269.8	3393.5	3538.7	3698.0	3871.6	3972.7
20°	3641.1	3577.1	3356.6	3204.3	3151.7	3184.4	3292.5	3446.2	3634.0	3864.5	3994.0
22.5°	4240.2	4146.2	3678.1	3395.0	3217.1	3177.3	3258.4	3422.0	3641.1	3952.7	4117.8
25°	5112.4	4978.6	4230.2	3870.2	3503.1	3291.1	3309.6	3477.5	3742.2	4157.6	4356.8
27.5°	5801.0	5714.3	4951.6	4540.4	4023.9	3598.4	3476.1	3616.9	3948.5	4493.4	4696.9
30°	6210.8	6158.2	5722.8	5300.2	4688.4	4087.9	3794.8	3878.7	4271.5	4958.7	5126.6
32.5°	6686.1	6654.8	6441.3	6052.9	5405.5	4731.0	4299.9	4270.0	4704.0	5517.9	5594.7
35°	7178.4	7168.4	7043.2	6764.3	6175.3	5579.1	4970.1	4768.0	5175.0	6098.4	6050.1
37.5°	7636.6	7619.5	7546.9	7384.7	6980.6	6489.7	5653.1	5278.9	5682.9	6653.3	6438.5
40°	8480.3	8346.6	8097.6	7975.2	7794.5	7256.6	6195.2	5755.5	6209.4	7182.7	6774.3
42.5°	9509.1	9291.4	8827.5	8659.6	8634.0	7861.4	6565.1	6217.9	6740.1	7707.7	7104.4
45°	10318.7	10113.8	9713.9	9501.9	9595.8	8409.2	6936.5	6711.7	7286.5	8258.3	7444.5
47.5°	11182.3	10860.8	10331.5	10395.5	10600.4	8927.1	7315.0	7242.4	7885.6	8874.5	7867.1
50°	11213.7	10967.5	10735.6	11118.3	11437.0	9403.8	7788.8	7798.8	8618.3	9649.9	8429.1
52.5°	10563.4	10510.8	10879.3	11481.2	11940.7	9780.8	8328.1	8373.6	9556.0	10540.6	9046.6
55°	10335.7	10276.0	10701.4	11354.5	12009.0	10092.4	8912.9	8995.4	10690.0	11479.7	9648.5
57.5°	10890.7	10758.3	10786.8	11294.8	11842.6	10433.9	9550.3	9716.8	11922.2	12300.7	10035.5
60°	12441.6	12158.4	11620.6	11607.8	11932.2	10946.2	10287.4	10490.8	13202.8	12693.4	9884.7
62.5°	14617.2	14334.0	13326.6	12670.7	12622.3	11791.3	11192.3	11246.4	13942.7	12161.3	8964.1
65°	16972.0	16718.7	15593.3	14667.0	14220.2	13191.4	12243.8	11583.6	13700.8	10697.2	7353.4
67.5°	19830.6	19558.8	18591.2	17736.1	17306.4	15451.0	12982.3	11260.6	12165.6	8286.8	5286.0
70°	21829.7	21552.2	21170.9	21863.8	22915.3	18710.8	13077.6	9947.3	9086.5	5507.9	3181.5
72.5°	19221.6	19092.1	19787.9	22706.2	27085.8	20688.6	11821.2	7242.4	5277.4	2924.0	1841.2
73°	17610.9	17582.4	18769.1	22115.7	27115.7	20384.1	11270.6	6731.6	4526.2	2586.8	1683.3
75°	7952.4	8181.5	10782.5	16892.3	23558.5	16797.0	7932.5	3861.7	2556.9	1787.1	1270.6
77.5°	1910.9	1990.6	3373.6	8022.2	14877.5	10009.9	3594.2	1909.5	1634.9	1262.1	927.7
80°	813.9	840.9	1299.1	2963.8	7004.8	4031.0	1656.2	1279.2	1131.2	880.8	650.3
82.5°	452.5	480.9	737.0	1344.6	2827.2	1374.5	1010.2	890.7	744.2	530.7	422.6
85°	256.1	271.8	431.1	751.3	1198.1	552.1	604.7	591.9	419.7	273.2	207.7
87.5°	120.9	130.9	207.7	348.6	469.5	216.3	307.3	338.6	263.2	166.5	108.1
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°	4472.1	4472.1	4472.1	4472.1	4472.1	4472.1	4472.1	4472.1	4472.1	4472.1
2.5°	4469.2	4494.9	4524.7	4540.4	4554.6	4571.7	4588.8	4588.8	4591.6	4593.0
5°	4437.9	4490.6	4537.5	4557.5	4561.7	4561.7	4557.5	4534.7	4514.8	4523.3
7.5°	4372.5	4449.3	4489.2	4482.0	4428.0	4365.4	4312.7	4248.7	4216.0	4210.3
10°	4278.6	4366.8	4373.9	4302.8	4169.0	4035.3	3924.3	3816.1	3764.9	3752.1
12.5°	4174.7	4255.8	4210.3	4063.7	3848.9	3653.9	3513.1	3403.5	3355.1	3342.3
15°	4090.8	4146.2	4031.0	3800.5	3530.1	3323.8	3207.2	3126.0	3091.9	3081.9
17.5°	4046.6	4058.0	3847.4	3535.8	3248.4	3076.2	3003.7	2965.3	2952.5	2945.3
20°	4068.0	3988.3	3672.4	3289.7	3017.9	2897.0	2879.9	2869.9	2867.1	2862.8
22.5°	4174.7	3967.0	3511.6	3056.3	2815.9	2763.2	2777.4	2776.0	2773.2	2770.3
25°	4365.4	3985.5	3355.1	2834.4	2646.5	2635.2	2660.8	2660.8	2649.4	2649.4
27.5°	4617.2	4023.9	3180.1	2623.8	2492.9	2494.3	2514.2	2508.5	2495.7	2487.2
30°	4924.6	4048.1	2975.2	2434.5	2349.2	2343.5	2349.2	2325.0	2286.6	2283.7
32.5°	5239.0	4018.2	2737.6	2266.6	2196.9	2184.1	2179.8	2145.7	2101.6	2088.8
35°	5523.6	3908.6	2495.7	2132.9	2051.8	2023.3	2043.2	2031.9	1992.0	1982.1
37.5°	5731.3	3705.2	2278.0	2014.8	1947.9	1940.8	1953.6	1957.9	1910.9	1901.0
40°	5870.8	3429.1	2091.6	1915.2	1928.0	1901.0	1858.3	1828.4	1814.2	1809.9
42.5°	5983.2	3141.7	1935.1	1868.2	1932.3	1854.0	1761.5	1713.1	1738.7	1750.1
45°	6112.7	2861.4	1804.2	1809.9	1910.9	1799.9	1694.6	1647.7	1657.6	1660.5
47.5°	6290.5	2519.9	1663.3	1716.0	1839.8	1762.9	1653.4	1586.5	1539.5	1518.2
50°	6536.7	2115.8	1516.8	1610.7	1770.1	1735.9	1589.3	1518.2	1431.4	1411.5
52.5°	6707.4	1738.7	1395.8	1522.5	1707.4	1681.8	1538.1	1445.6	1354.6	1337.5
55°	6614.9	1444.2	1290.5	1424.3	1624.9	1615.0	1495.4	1371.6	1300.5	1286.3
57.5°	6152.5	1257.8	1209.4	1331.8	1523.9	1558.0	1438.5	1309.0	1257.8	1247.9
60°	5270.3	1141.1	1158.2	1269.2	1441.4	1501.1	1381.6	1274.9	1240.7	1233.6
62.5°	4089.3	1062.9	1119.8	1223.7	1377.3	1461.3	1350.3	1270.6	1257.8	1249.3
65°	2929.7	1000.3	1078.5	1178.1	1319.0	1424.3	1338.9	1264.9	1267.8	1260.7
67.5°	1990.6	944.8	1028.7	1126.9	1262.1	1391.6	1323.3	1245.0	1280.6	1272.0
70°	1393.0	890.7	970.4	1061.5	1190.9	1346.0	1294.8	1215.1	1212.3	1178.1
72.5°	1087.1	819.6	890.7	970.4	1099.9	1282.0	1237.9	1148.3	1101.3	1065.7
73°	1037.3	802.5	870.8	950.5	1080.0	1266.4	1222.2	1129.8	1077.1	1044.4
75°	858.0	728.5	791.1	862.3	994.6	1192.4	1145.4	1045.8	978.9	959.0
77.5°	674.4	623.2	683.0	747.0	876.5	1084.2	1031.6	936.2	899.3	882.2
80°	499.4	516.5	569.1	626.1	759.8	969.0	922.0	826.7	991.7	950.5
82.5°	351.4	391.3	439.7	490.9	637.4	856.6	799.7	701.5	725.7	603.3
85°	207.7	256.1	301.6	345.8	459.6	710.0	660.2	559.2	458.2	436.8
87.5°	120.9	142.3	155.1	200.6	315.9	535.0	465.3	414.1	237.6	160.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)