

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: P300321

Luminaire Tested: **GLNA-AF-05-LED-E1-T4FT-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300321
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-05-LED-E1-T4FT-7030
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV Forward Throw OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28852 lumens
Efficiency: N/A
Efficacy: 103.4 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

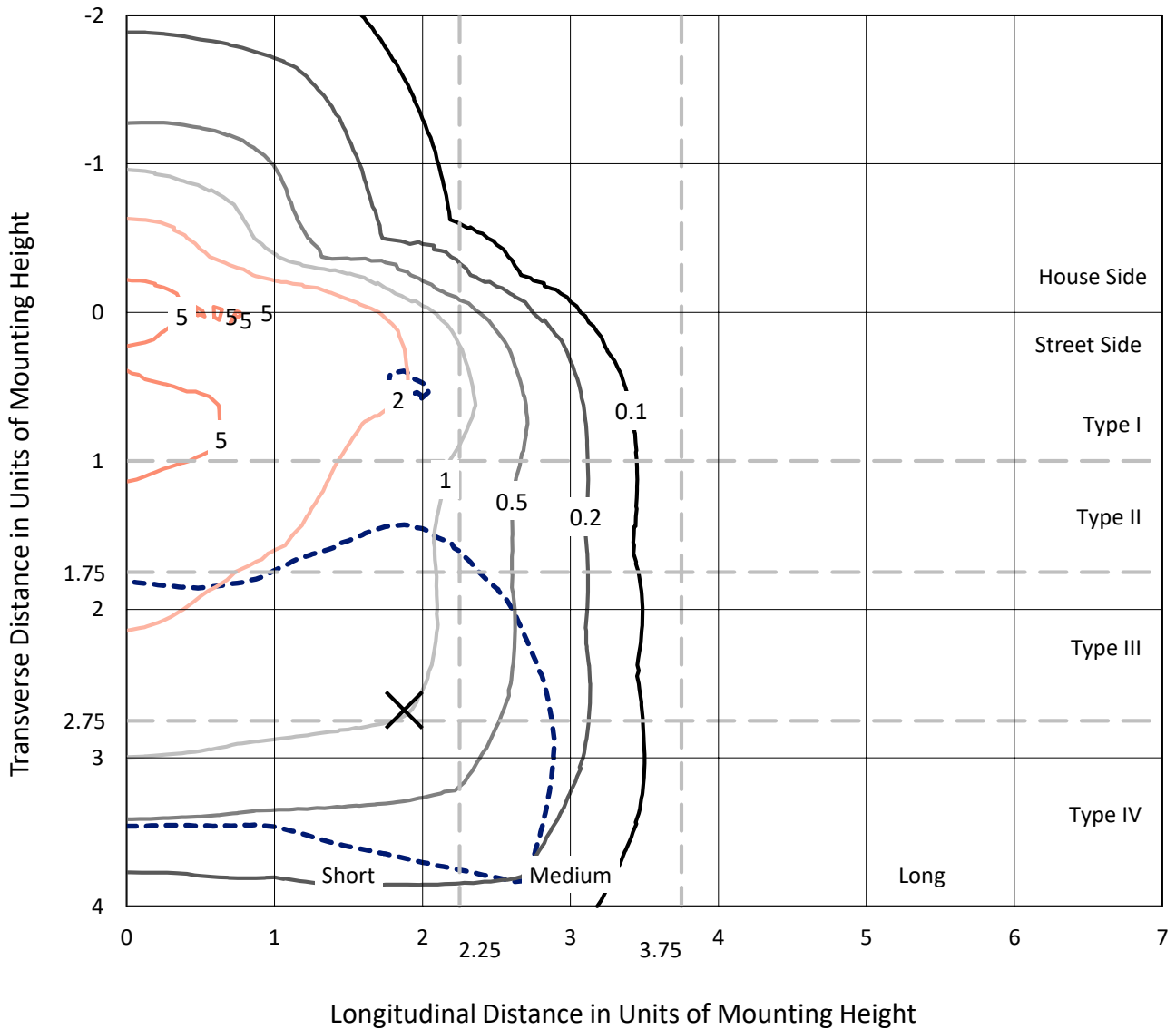
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

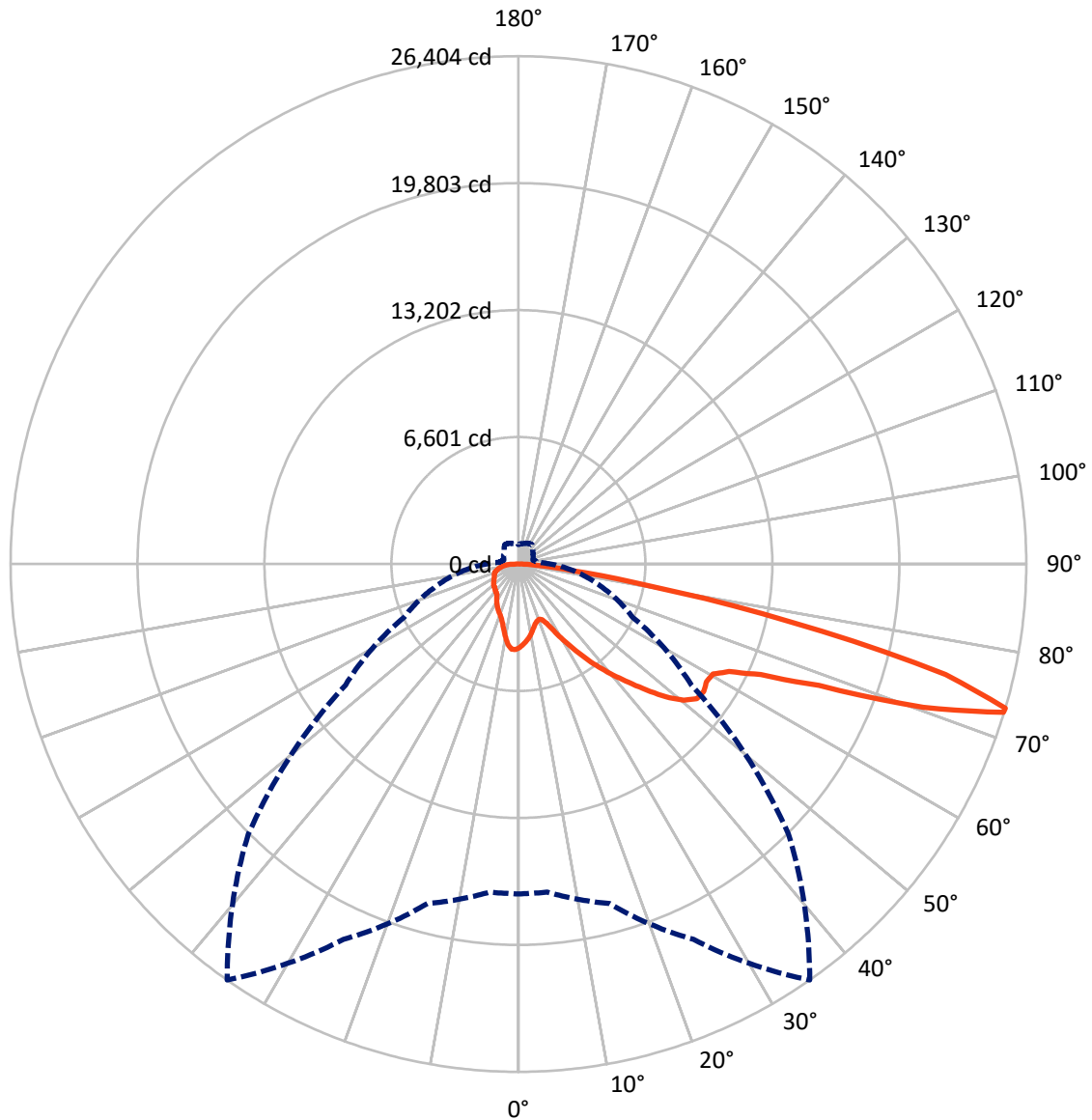
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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	5502.9	0.0	5502.9
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	23349.2	0.0	23349.2
	% Fixture	80.9	0.0	80.9
Total	Lumens	28852.0	0.0	28852.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.2	1.4
10°-20°	983.9	3.4
20°-30°	1590.6	5.5
30°-40°	2667.3	9.2
40°-50°	4111.5	14.3
50°-60°	5516.0	19.1
60°-70°	7348.5	25.5
70°-80°	5604.7	19.4
80°-90°	635.3	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°	28852.0	100.0
0°-180°	28852.0	100.0

Coefficient of Utilization



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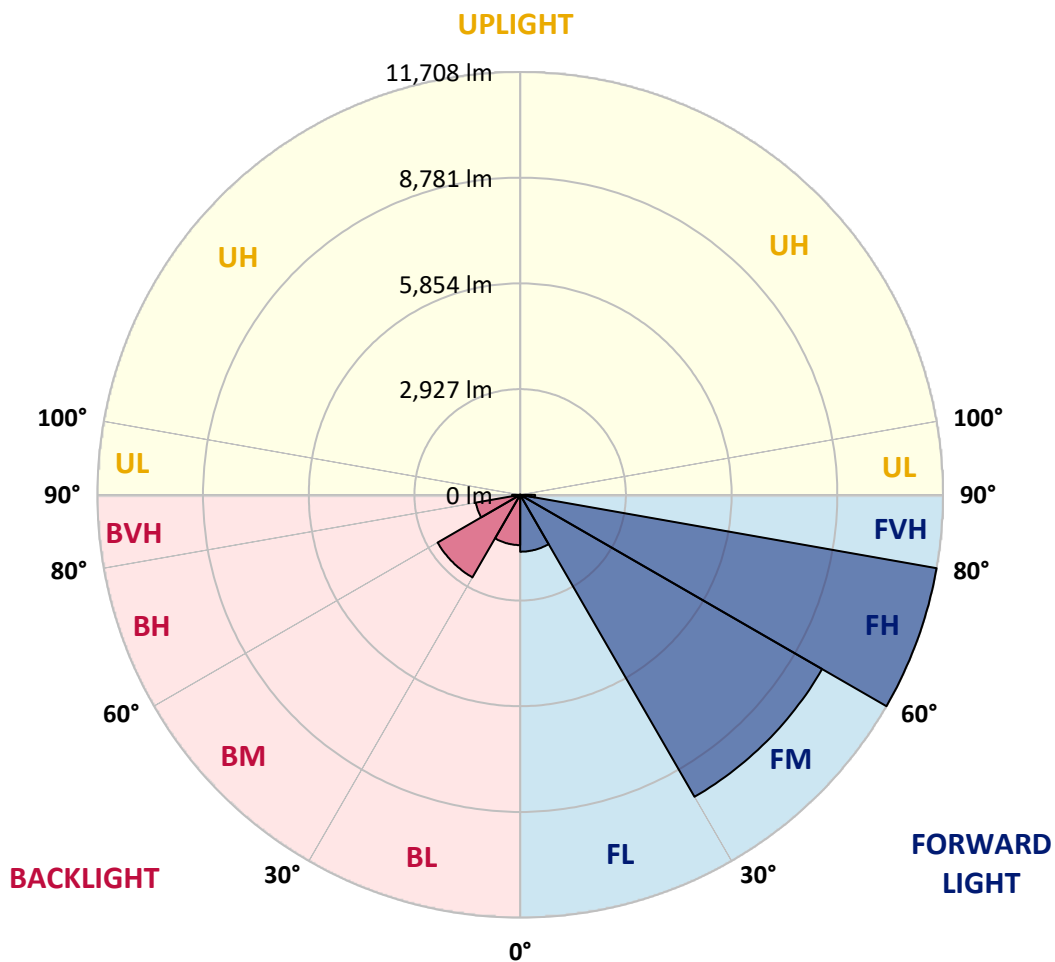
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1576.3	5.5			
FM	(30°-60°)	9654.1	33.5			
FH	(60°-80°)	11708.2	40.6			G4/12000
FVH	(80°-90°)	410.6	1.4			G3/500
BL	(0°-30°)	1392.5	4.8	B3/2500		
BM	(30°-60°)	2640.8	9.2	B3/5000		
BH	(60°-80°)	1245.0	4.3	B3/2500		G3/2500
BVH	(80°-90°)	224.6	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°	4354.7	4354.7	4354.7	4354.7	4354.7	4354.7	4354.7	4354.7	4354.7	4354.7	4354.7
2.5°	4182.9	4191.2	4181.5	4193.9	4214.7	4236.9	4252.1	4274.3	4299.2	4333.9	4342.2
5°	3986.1	3998.6	3998.6	4020.8	4060.9	4097.0	4130.2	4166.2	4218.9	4278.5	4302.0
7.5°	3770.0	3776.9	3789.4	3822.6	3880.8	3932.1	3979.2	4037.4	4109.4	4188.4	4230.0
10°	3509.5	3519.2	3538.6	3585.7	3664.7	3735.3	3803.2	3883.6	3975.0	4073.4	4126.1
12.5°	3325.2	3322.5	3330.8	3365.4	3434.7	3520.6	3619.0	3721.5	3833.7	3948.7	4012.4
15°	3262.9	3247.6	3215.8	3207.5	3244.9	3330.8	3444.4	3570.5	3704.9	3843.4	3922.4
17.5°	3301.7	3275.4	3188.1	3124.3	3118.8	3183.9	3304.4	3445.8	3600.9	3770.0	3868.4
20°	3545.5	3483.2	3268.4	3120.2	3068.9	3100.8	3206.1	3355.7	3538.6	3763.1	3889.1
22.5°	4128.8	4037.4	3581.6	3305.8	3132.6	3093.9	3172.8	3332.2	3545.5	3849.0	4009.7
25°	4978.2	4847.9	4119.1	3768.6	3411.1	3204.7	3222.7	3386.2	3643.9	4048.5	4242.4
27.5°	5648.7	5564.2	4821.6	4421.2	3918.2	3504.0	3384.8	3522.0	3844.8	4375.5	4573.6
30°	6047.8	5996.5	5572.5	5161.0	4565.3	3980.6	3695.2	3776.9	4159.3	4828.5	4992.0
32.5°	6510.5	6480.0	6272.2	5894.0	5263.6	4606.8	4187.0	4157.9	4580.5	5373.0	5447.8
35°	6989.9	6980.2	6858.3	6586.7	6013.1	5432.6	4839.6	4642.9	5039.1	5938.3	5891.2
37.5°	7436.1	7419.4	7348.8	7190.8	6797.3	6319.3	5504.6	5140.3	5533.7	6478.7	6269.4
40°	8257.7	8127.4	7885.0	7765.8	7589.8	7066.1	6032.5	5604.4	6046.4	6994.1	6596.4
42.5°	9259.4	9047.4	8595.7	8432.2	8407.3	7655.0	6392.8	6054.7	6563.2	7505.3	6917.9
45°	10047.7	9848.2	9458.9	9252.5	9343.9	8188.4	6754.4	6535.5	7095.2	8041.5	7249.0
47.5°	10888.8	10575.6	10060.2	10122.6	10322.1	8692.7	7122.9	7052.3	7678.5	8641.4	7660.5
50°	10919.2	10679.5	10453.7	10826.4	11136.8	9156.9	7584.3	7594.0	8392.1	9396.6	8207.8
52.5°	10286.1	10234.8	10593.6	11179.7	11627.2	9524.0	8109.4	8153.7	9305.1	10263.9	8809.1
55°	10064.4	10006.2	10420.4	11056.4	11693.7	9827.4	8678.9	8759.2	10409.4	11178.3	9395.2
57.5°	10604.7	10475.9	10503.6	10998.2	11531.6	10160.0	9299.6	9461.7	11609.2	11977.8	9772.0
60°	12114.9	11839.2	11315.5	11303.0	11618.9	10658.8	10017.3	10215.4	12856.2	12360.2	9625.2
62.5°	14233.4	13957.7	12976.7	12338.0	12290.9	11481.8	10898.5	10951.1	13576.6	11842.0	8728.7
65°	16526.4	16279.8	15183.8	14281.9	13846.8	12845.1	11922.3	11279.5	13341.1	10416.3	7160.3
67.5°	19309.9	19045.3	18103.1	17270.4	16852.0	15045.3	12641.4	10965.0	11846.1	8069.2	5147.2
70°	21256.5	20986.4	20615.1	21289.8	22313.7	18219.5	12734.3	9686.1	8847.9	5363.3	3098.0
72.5°	18716.9	18590.8	19268.3	22110.0	26374.6	20145.4	11510.8	7052.3	5138.9	2847.2	1792.9
73°	17148.5	17120.8	18276.3	21535.0	26403.7	19848.9	10974.7	6554.9	4407.3	2518.9	1639.1
75°	7743.6	7966.7	10499.4	16448.8	22939.9	16356.0	7724.2	3760.3	2489.8	1740.2	1237.3
77.5°	1860.7	1938.3	3285.1	7811.5	14486.9	9747.1	3499.8	1859.4	1592.0	1229.0	903.4
80°	792.5	818.8	1265.0	2886.0	6820.9	3925.2	1612.7	1245.6	1101.5	857.6	633.2
82.5°	440.6	468.3	717.7	1309.3	2753.0	1338.4	983.7	867.3	724.6	516.8	411.5
85°	249.4	264.6	419.8	731.6	1166.6	537.6	588.8	576.4	408.7	266.0	202.3
87.5°	117.8	127.5	202.3	339.5	457.2	210.6	299.3	329.8	256.3	162.1	105.3
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°	4354.7	4354.7	4354.7	4354.7	4354.7	4354.7	4354.7	4354.7	4354.7	4354.7
2.5°	4351.9	4376.8	4405.9	4421.2	4435.0	4451.7	4468.3	4468.3	4471.1	4472.4
5°	4321.4	4372.7	4418.4	4437.8	4442.0	4442.0	4437.8	4415.6	4396.2	4404.5
7.5°	4257.7	4332.5	4371.3	4364.4	4311.7	4250.8	4199.5	4137.1	4105.3	4099.7
10°	4166.2	4252.1	4259.1	4189.8	4059.6	3929.3	3821.2	3715.9	3666.1	3653.6
12.5°	4065.1	4144.1	4099.7	3957.0	3747.8	3558.0	3420.8	3314.1	3267.0	3254.6
15°	3983.4	4037.4	3925.2	3700.7	3437.5	3236.6	3122.9	3044.0	3010.7	3001.0
17.5°	3940.4	3951.5	3746.4	3443.0	3163.1	2995.5	2924.8	2887.4	2874.9	2868.0
20°	3961.2	3883.6	3576.0	3203.3	2938.7	2820.9	2804.3	2794.6	2791.8	2787.7
22.5°	4065.1	3862.8	3419.4	2976.1	2741.9	2690.7	2704.5	2703.1	2700.4	2697.6
25°	4250.8	3880.8	3267.0	2759.9	2577.1	2566.0	2590.9	2590.9	2579.8	2579.8
27.5°	4496.0	3918.2	3096.6	2554.9	2427.4	2428.8	2448.2	2442.7	2430.2	2421.9
30°	4795.3	3941.8	2897.1	2370.6	2287.5	2281.9	2287.5	2263.9	2226.5	2223.7
32.5°	5101.5	3912.7	2665.7	2207.1	2139.2	2126.8	2122.6	2089.4	2046.4	2033.9
35°	5378.6	3806.0	2430.2	2076.9	1997.9	1970.2	1989.6	1978.5	1939.7	1930.0
37.5°	5580.8	3607.9	2218.2	1961.9	1896.8	1889.8	1902.3	1906.5	1860.7	1851.0
40°	5716.6	3339.1	2036.7	1864.9	1877.4	1851.0	1809.5	1780.4	1766.5	1762.4
42.5°	5826.1	3059.2	1884.3	1819.2	1881.5	1805.3	1715.3	1668.2	1693.1	1704.2
45°	5952.2	2786.3	1756.8	1762.4	1860.7	1752.7	1650.1	1604.4	1614.1	1616.9
47.5°	6125.4	2453.7	1619.7	1670.9	1791.5	1716.7	1610.0	1544.8	1499.1	1478.3
50°	6365.0	2060.3	1477.0	1568.4	1723.6	1690.3	1547.6	1478.3	1393.8	1374.4
52.5°	6531.3	1693.1	1359.2	1482.5	1662.6	1637.7	1497.7	1407.7	1319.0	1302.4
55°	6441.3	1406.3	1256.7	1386.9	1582.3	1572.6	1456.2	1335.6	1266.4	1252.5
57.5°	5991.0	1224.8	1177.7	1296.8	1483.9	1517.1	1400.8	1274.7	1224.8	1215.1
60°	5131.9	1111.2	1127.8	1235.9	1403.5	1461.7	1345.3	1241.4	1208.2	1201.2
62.5°	3982.0	1035.0	1090.4	1191.5	1341.2	1422.9	1314.9	1237.3	1224.8	1216.5
65°	2852.8	974.0	1050.2	1147.2	1284.4	1386.9	1303.8	1231.7	1234.5	1227.6
67.5°	1938.3	920.0	1001.7	1097.3	1229.0	1355.0	1288.5	1212.3	1247.0	1238.6
70°	1356.4	867.3	944.9	1033.6	1159.7	1310.7	1260.8	1183.2	1180.5	1147.2
72.5°	1058.5	798.1	867.3	944.9	1071.0	1248.3	1205.4	1118.1	1072.4	1037.7
73°	1010.0	781.4	847.9	925.5	1051.6	1233.1	1190.2	1100.1	1048.8	1017.0
75°	835.5	709.4	770.3	839.6	968.5	1161.1	1115.3	1018.4	953.2	933.8
77.5°	656.7	606.9	665.0	727.4	853.5	1055.8	1004.5	911.7	875.6	859.0
80°	486.3	502.9	554.2	609.6	739.9	943.5	897.8	805.0	965.7	925.5
82.5°	342.2	381.0	428.1	478.0	620.7	834.1	778.7	683.1	706.6	587.5
85°	202.3	249.4	293.7	336.7	447.5	691.4	642.9	544.5	446.1	425.4
87.5°	117.8	138.6	151.0	195.4	307.6	521.0	453.1	403.2	231.4	156.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)