

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: P300391

Luminaire Tested: **GLNA-AF-06-LED-E1-T4FT-7060-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300391
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-7060-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5700K 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: 28836.9 lumens
Efficiency: N/A
Efficacy: 115.8 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

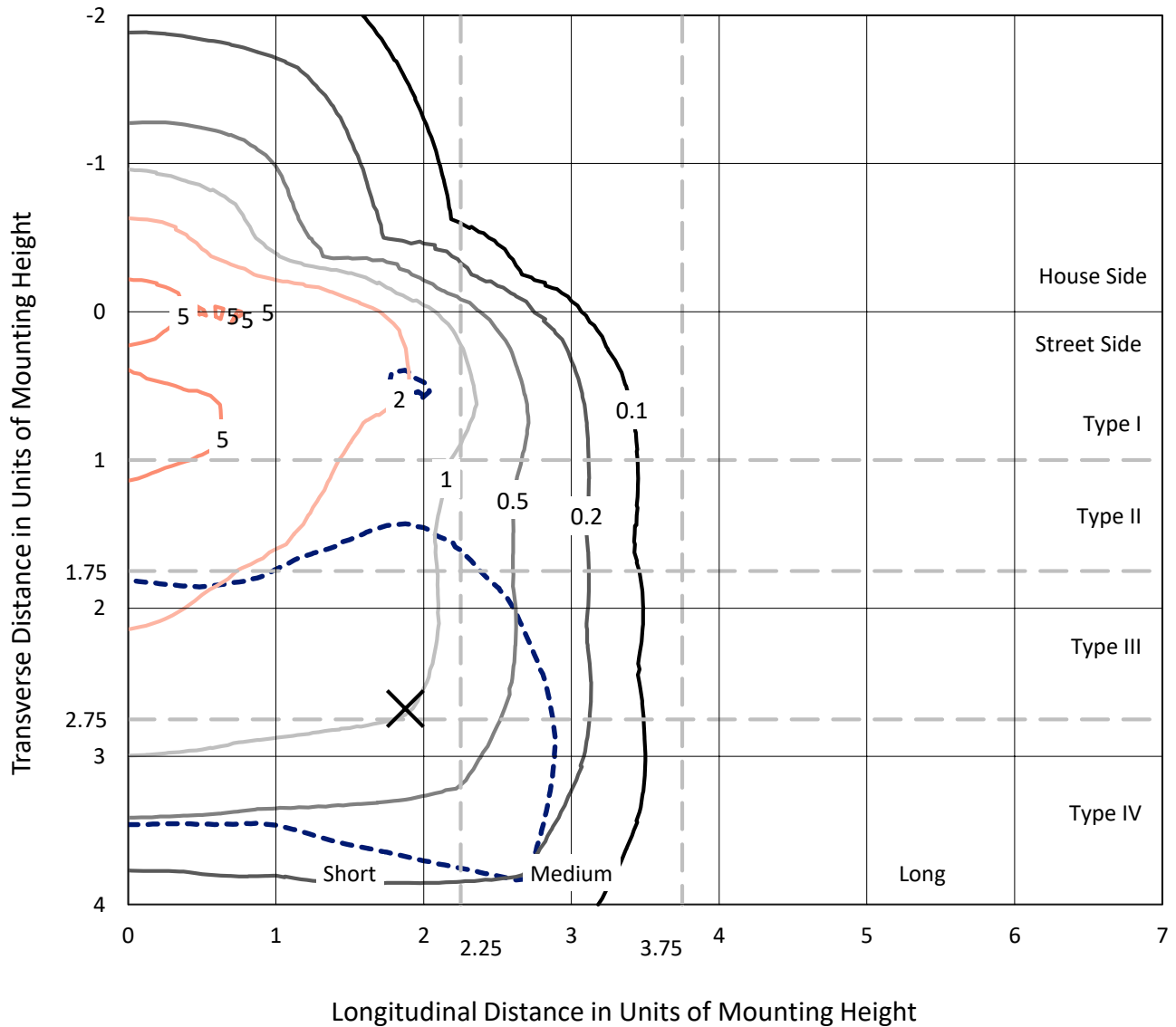


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Iso-Footcandle Lines of Horizontal Illumination

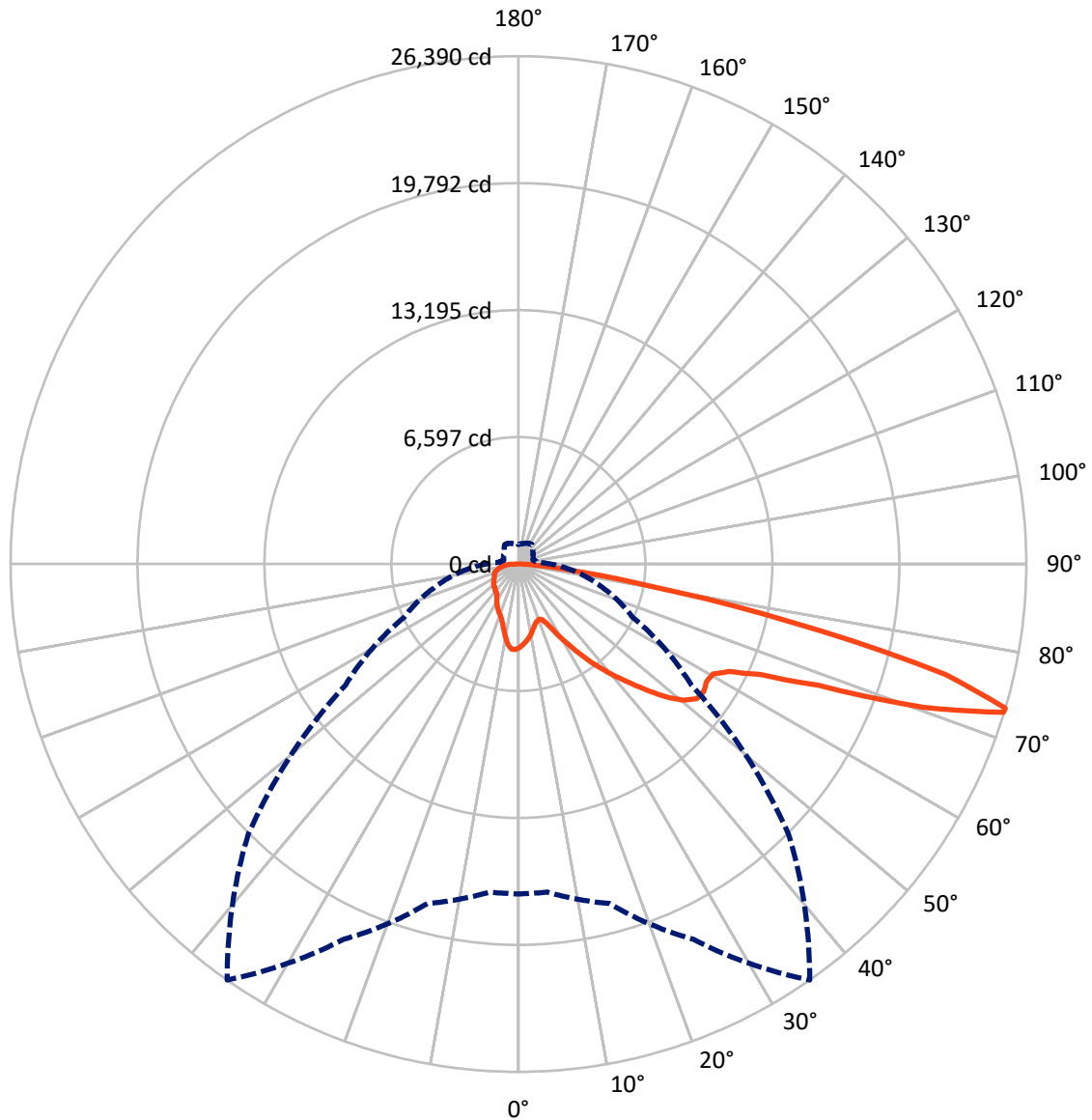
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	5500.0	0.0	5500.0
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	23336.9	0.0	23336.9
	% Fixture	80.9	0.0	80.9
Total	Lumens	28836.9	0.0	28836.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.0	1.4
10°-20°	983.4	3.4
20°-30°	1589.8	5.5
30°-40°	2665.9	9.2
40°-50°	4109.4	14.3
50°-60°	5513.2	19.1
60°-70°	7344.6	25.5
70°-80°	5601.7	19.4
80°-90°	634.9	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°	28836.9	100.0
0°-180°	28836.9	100.0

Coefficient of Utilization



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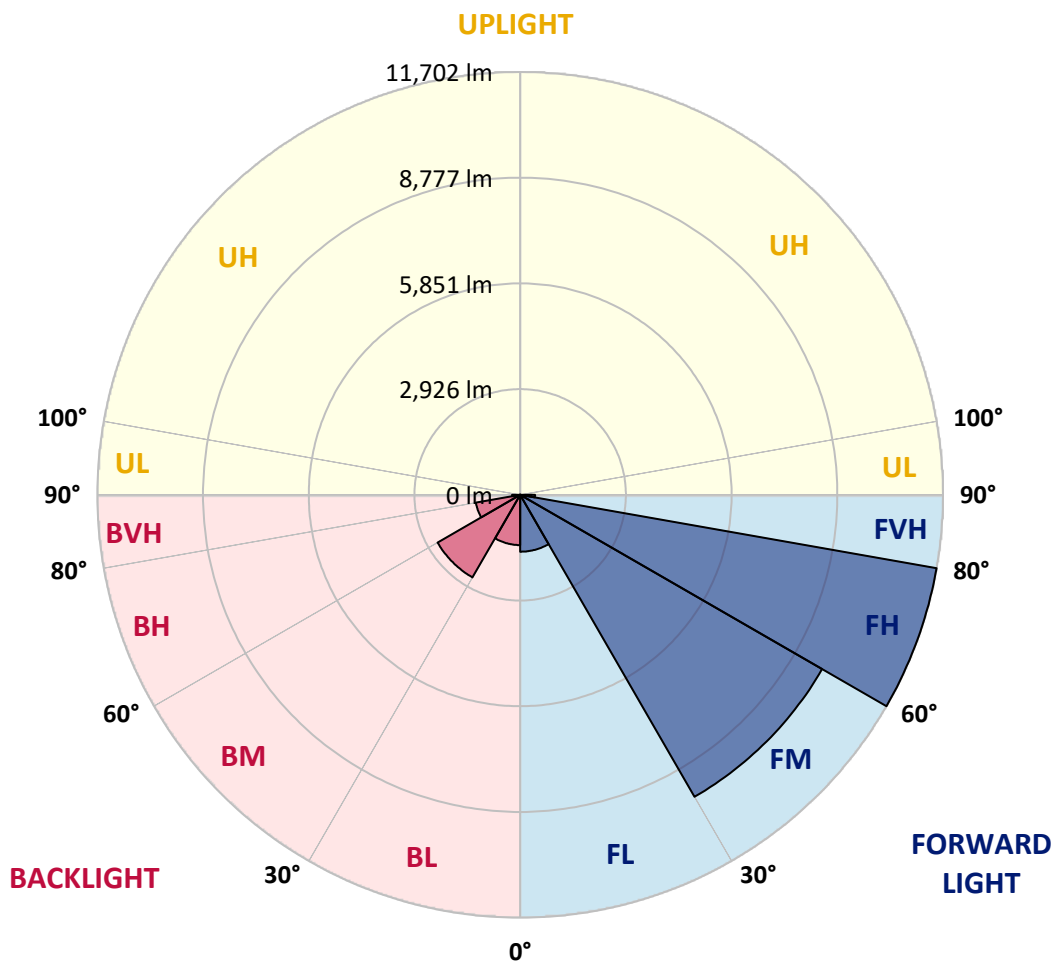
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1575.5	5.5			
FM (30°-60°)	9649.0	33.5			
FH (60°-80°)	11702.0	40.6			G4/12000
FVH (80°-90°)	410.4	1.4			G3/500
BL (0°-30°)	1391.8	4.8	B3/2500		
BM (30°-60°)	2639.4	9.2	B3/5000		
BH (60°-80°)	1244.3	4.3	B3/2500		G3/2500
BVH (80°-90°)	224.5	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°	4352.4	4352.4	4352.4	4352.4	4352.4	4352.4	4352.4	4352.4	4352.4	4352.4	4352.4
2.5°	4180.7	4189.0	4179.3	4191.8	4212.5	4234.7	4249.9	4272.1	4297.0	4331.6	4339.9
5°	3984.0	3996.5	3996.5	4018.7	4058.8	4094.8	4128.1	4164.1	4216.7	4276.2	4299.8
7.5°	3768.0	3774.9	3787.4	3820.6	3878.8	3930.0	3977.1	4035.3	4107.3	4186.2	4227.8
10°	3507.7	3517.4	3536.7	3583.8	3662.8	3733.4	3801.2	3881.6	3973.0	4071.3	4123.9
12.5°	3323.5	3320.7	3329.0	3363.7	3432.9	3518.7	3617.1	3719.5	3831.7	3946.6	4010.3
15°	3261.2	3245.9	3214.1	3205.8	3243.2	3329.0	3442.6	3568.6	3702.9	3841.4	3920.3
17.5°	3300.0	3273.6	3186.4	3122.7	3117.2	3182.2	3302.7	3444.0	3599.1	3768.0	3866.3
20°	3543.7	3481.4	3266.7	3118.5	3067.3	3099.2	3204.4	3354.0	3536.7	3761.1	3887.1
22.5°	4126.7	4035.3	3579.7	3304.1	3131.0	3092.2	3171.2	3330.4	3543.7	3846.9	4007.6
25°	4975.5	4845.4	4117.0	3766.6	3409.3	3203.0	3221.0	3384.4	3642.0	4046.4	4240.2
27.5°	5645.8	5561.3	4819.1	4418.9	3916.2	3502.1	3383.0	3520.1	3842.8	4373.2	4571.2
30°	6044.6	5993.4	5569.6	5158.3	4562.9	3978.5	3693.2	3774.9	4157.1	4826.0	4989.4
32.5°	6507.1	6476.7	6268.9	5890.9	5260.8	4604.4	4184.8	4155.7	4578.1	5370.2	5445.0
35°	6986.3	6976.6	6854.7	6583.3	6010.0	5429.8	4837.1	4640.4	5036.5	5935.2	5888.1
37.5°	7432.2	7415.5	7344.9	7187.1	6793.8	6316.0	5501.8	5137.6	5530.8	6475.3	6266.2
40°	8253.3	8123.2	7880.8	7761.7	7585.9	7062.4	6029.4	5601.5	6043.2	6990.4	6593.0
42.5°	9254.5	9042.7	8591.2	8427.8	8402.9	7651.0	6389.4	6051.5	6559.7	7501.4	6914.2
45°	10042.5	9843.1	9454.0	9247.6	9339.0	8184.1	6750.8	6532.0	7091.5	8037.3	7245.2
47.5°	10883.1	10570.1	10054.9	10117.3	10316.7	8688.2	7119.2	7048.6	7674.5	8636.9	7656.5
50°	10913.5	10673.9	10448.2	10820.7	11130.9	9152.1	7580.3	7590.0	8387.7	9391.6	8203.5
52.5°	10280.7	10229.4	10588.1	11173.9	11621.1	9519.0	8105.2	8149.5	9300.2	10258.5	8804.5
55°	10059.1	10000.9	10415.0	11050.6	11687.6	9822.3	8674.3	8754.6	10403.9	11172.5	9390.2
57.5°	10599.2	10470.4	10498.1	10992.5	11525.6	10154.7	9294.7	9456.7	11603.1	11971.5	9766.9
60°	12108.6	11833.0	11309.6	11297.1	11612.8	10653.2	10012.0	10210.0	12849.5	12353.7	9620.1
62.5°	14225.9	13950.4	12969.9	12331.5	12284.5	11475.7	10892.7	10945.4	13569.5	11835.8	8724.2
65°	16517.8	16271.3	15175.9	14274.4	13839.6	12838.4	11916.1	11273.6	13334.1	10410.8	7156.6
67.5°	19299.8	19035.3	18093.6	17261.4	16843.2	15037.4	12634.8	10959.2	11839.9	8065.0	5144.5
70°	21245.4	20975.4	20604.3	21278.7	22302.0	18210.0	12727.6	9681.1	8843.3	5360.5	3096.4
72.5°	18707.1	18581.1	19258.3	22098.5	26360.8	20134.8	11504.8	7048.6	5136.2	2845.7	1791.9
73°	17139.5	17111.8	18266.7	21523.8	26389.9	19838.5	10968.9	6551.4	4405.0	2517.5	1638.2
75°	7739.6	7962.5	10493.9	16440.2	22927.9	16347.4	7720.2	3758.3	2488.5	1739.3	1236.6
77.5°	1859.8	1937.3	3283.3	7807.4	14479.3	9742.0	3498.0	1858.4	1591.1	1228.3	902.9
80°	792.1	818.4	1264.3	2884.5	6817.3	3923.1	1611.9	1244.9	1100.9	857.2	632.8
82.5°	440.4	468.1	717.3	1308.6	2751.6	1337.7	983.2	866.9	724.2	516.5	411.3
85°	249.3	264.5	419.6	731.2	1166.0	537.3	588.5	576.1	408.5	265.9	202.2
87.5°	117.7	127.4	202.2	339.3	457.0	210.5	299.1	329.6	256.2	162.0	105.2
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°	4352.4	4352.4	4352.4	4352.4	4352.4	4352.4	4352.4	4352.4	4352.4	4352.4
2.5°	4349.6	4374.5	4403.6	4418.9	4432.7	4449.3	4465.9	4465.9	4468.7	4470.1
5°	4319.2	4370.4	4416.1	4435.5	4439.6	4439.6	4435.5	4413.3	4393.9	4402.2
7.5°	4255.5	4330.2	4369.0	4362.1	4309.5	4248.5	4197.3	4135.0	4103.1	4097.6
10°	4164.1	4249.9	4256.8	4187.6	4057.4	3927.3	3819.2	3714.0	3664.2	3651.7
12.5°	4063.0	4141.9	4097.6	3955.0	3745.9	3556.1	3419.0	3312.4	3265.3	3252.9
15°	3981.3	4035.3	3923.1	3698.8	3435.7	3234.9	3121.3	3042.4	3009.1	2999.5
17.5°	3938.3	3949.4	3744.5	3441.2	3161.5	2993.9	2923.3	2885.9	2873.4	2866.5
20°	3959.1	3881.6	3574.1	3201.6	2937.1	2819.4	2802.8	2793.1	2790.3	2786.2
22.5°	4063.0	3860.8	3417.7	2974.5	2740.5	2689.3	2703.1	2701.7	2699.0	2696.2
25°	4248.5	3878.8	3265.3	2758.5	2575.7	2564.6	2589.6	2589.6	2578.5	2578.5
27.5°	4493.6	3916.2	3095.0	2553.5	2426.1	2427.5	2446.9	2441.4	2428.9	2420.6
30°	4792.8	3939.7	2895.6	2369.4	2286.3	2280.7	2286.3	2262.7	2225.4	2222.6
32.5°	5098.8	3910.6	2664.3	2206.0	2138.1	2125.7	2121.5	2088.3	2045.3	2032.9
35°	5375.7	3804.0	2428.9	2075.8	1996.9	1969.2	1988.6	1977.5	1938.7	1929.0
37.5°	5577.9	3606.0	2217.0	1960.9	1895.8	1888.9	1901.3	1905.5	1859.8	1850.1
40°	5713.6	3337.3	2035.6	1863.9	1876.4	1850.1	1808.5	1779.5	1765.6	1761.5
42.5°	5823.0	3057.6	1883.3	1818.2	1880.5	1804.4	1714.4	1667.3	1692.2	1703.3
45°	5949.1	2784.8	1755.9	1761.5	1859.8	1751.8	1649.3	1603.6	1613.3	1616.0
47.5°	6122.1	2452.5	1618.8	1670.1	1790.5	1715.8	1609.1	1544.0	1498.3	1477.6
50°	6361.7	2059.2	1476.2	1567.6	1722.7	1689.4	1546.8	1477.6	1393.1	1373.7
52.5°	6527.9	1692.2	1358.5	1481.7	1661.7	1636.8	1497.0	1406.9	1318.3	1301.7
55°	6437.9	1405.6	1256.0	1386.2	1581.4	1571.7	1455.4	1334.9	1265.7	1251.8
57.5°	5987.8	1224.2	1177.1	1296.2	1483.1	1516.3	1400.0	1274.0	1224.2	1214.5
60°	5129.3	1110.6	1127.2	1235.2	1402.8	1461.0	1344.6	1240.8	1207.5	1200.6
62.5°	3979.9	1034.4	1089.8	1190.9	1340.5	1422.2	1314.2	1236.6	1224.2	1215.8
65°	2851.3	973.5	1049.7	1146.6	1283.7	1386.2	1303.1	1231.1	1233.8	1226.9
67.5°	1937.3	919.5	1001.2	1096.8	1228.3	1354.3	1287.9	1211.7	1246.3	1238.0
70°	1355.7	866.9	944.4	1033.1	1159.1	1310.0	1260.2	1182.6	1179.8	1146.6
72.5°	1058.0	797.6	866.9	944.4	1070.4	1247.7	1204.8	1117.5	1071.8	1037.2
73°	1009.5	781.0	847.5	925.0	1051.1	1232.5	1189.5	1099.5	1048.3	1016.4
75°	835.0	709.0	769.9	839.2	968.0	1160.5	1114.8	1017.8	952.7	933.3
77.5°	656.4	606.5	664.7	727.0	853.0	1055.2	1004.0	911.2	875.2	858.6
80°	486.1	502.7	553.9	609.3	739.5	943.0	897.3	804.6	965.2	925.0
82.5°	342.0	380.8	427.9	477.8	620.4	833.6	778.3	682.7	706.2	587.2
85°	202.2	249.3	293.6	336.5	447.3	691.0	642.5	544.2	445.9	425.1
87.5°	117.7	138.5	150.9	195.3	307.4	520.7	452.8	403.0	231.3	156.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)