

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: P269257

Luminaire Tested: **GLEON-AF-04-LED-E1-T2-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269257
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-04-LED-E1-T2-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20471.7 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 225
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

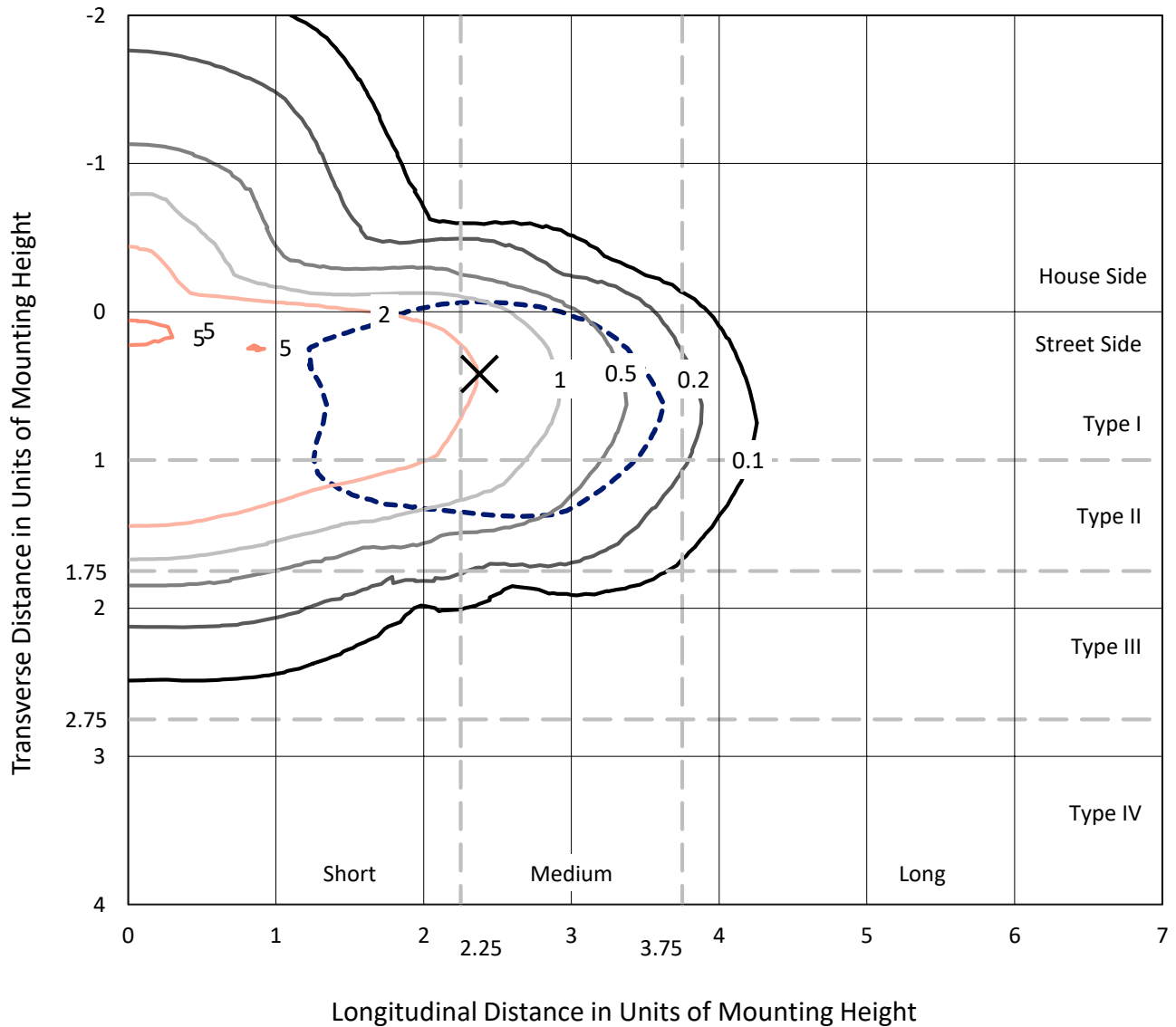


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

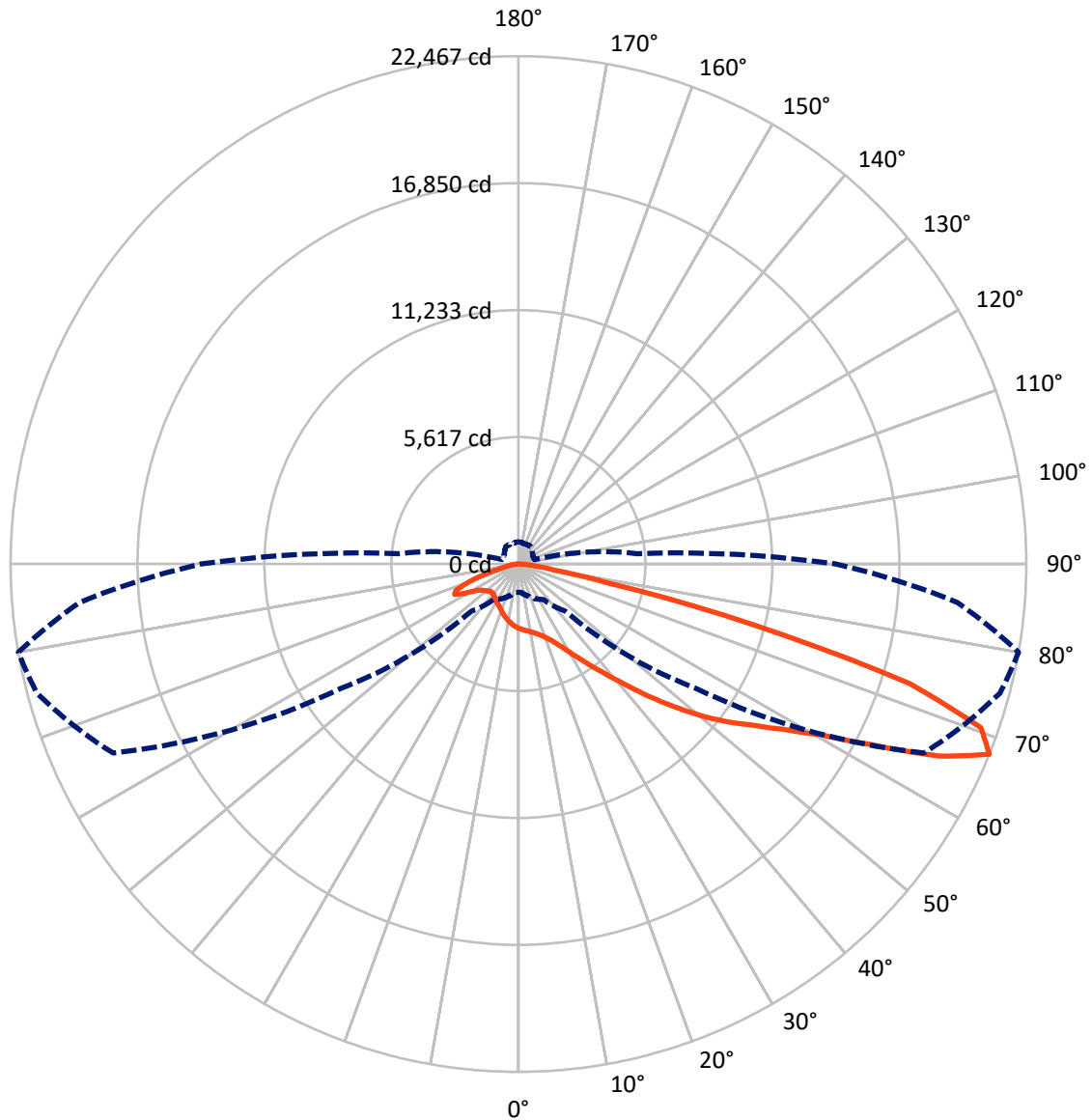


Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3770.1	0.0	3770.1
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	16701.6	0.0	16701.6
	% Fixture	81.6	0.0	81.6
Total	Lumens	20471.7	0.0	20471.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.4	1.3
10°-20°	755.8	3.7
20°-30°	1251.0	6.1
30°-40°	2046.3	10.0
40°-50°	3303.9	16.1
50°-60°	4769.9	23.3
60°-70°	5263.8	25.7
70°-80°	2426.3	11.9
80°-90°	392.4	1.9
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°	20471.7	100.0
0°-180°	20471.7	100.0



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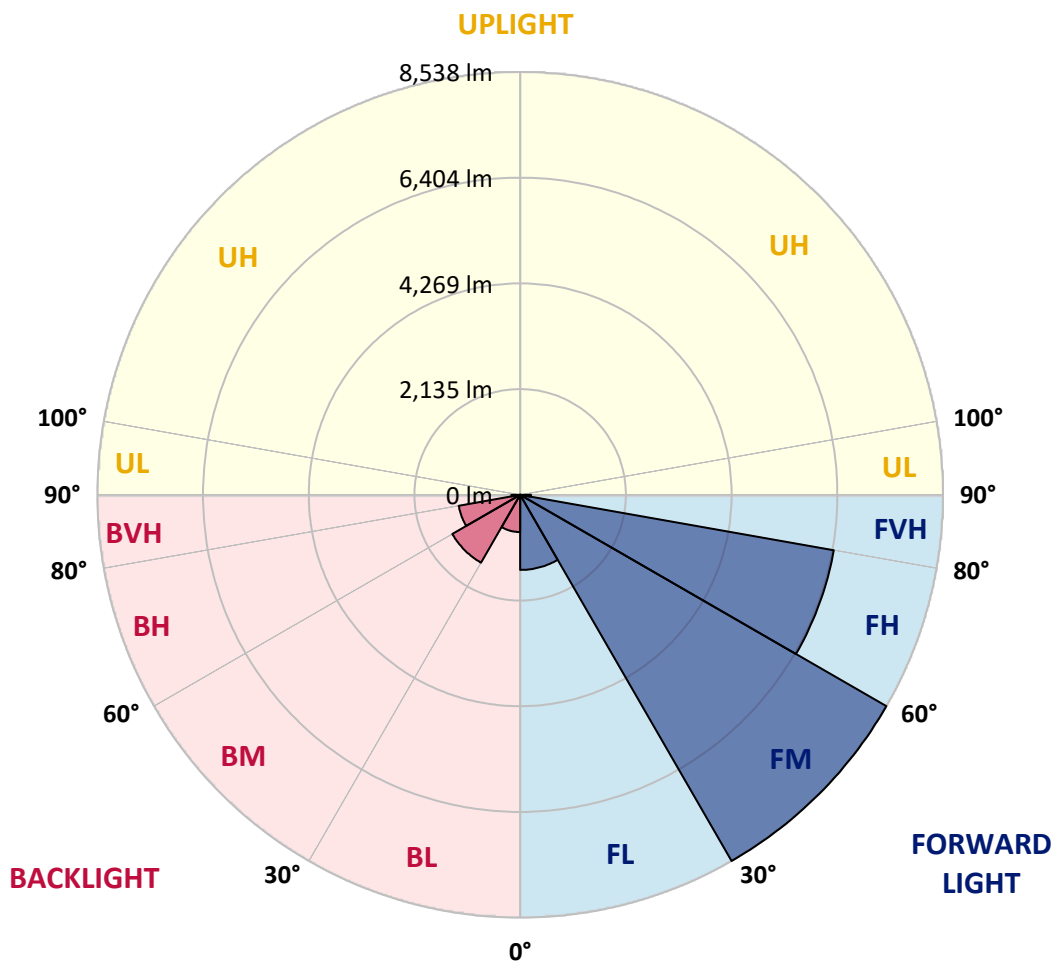
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1516.9	7.4			
FM	(30°-60°)	8538.2	41.7			
FH	(60°-80°)	6430.7	31.4			G3/7500
FVH	(80°-90°)	215.8	1.1			G2/225
BL	(0°-30°)	752.2	3.7	B2/1000		
BM	(30°-60°)	1581.8	7.7	B2/2500		
BH	(60°-80°)	1259.4	6.2	B3/2500		G3/2500
BVH	(80°-90°)	176.7	0.9			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	2844.2	2844.2	2844.2	2844.2	2844.2	2844.2	2844.2	2844.2	2844.2	2844.2	2844.2
2.5°	3111.2	3093.0	3096.1	3091.1	3075.9	3049.7	3021.4	2970.1	2916.6	2888.5	2866.3
5°	3371.2	3366.2	3359.1	3343.0	3304.8	3250.2	3182.8	3092.1	2994.3	2942.8	2893.5
7.5°	3565.7	3562.7	3553.7	3543.5	3506.3	3440.8	3339.0	3210.0	3067.8	2997.4	2920.7
10°	3581.8	3586.9	3593.9	3621.2	3626.2	3591.0	3487.1	3330.9	3144.4	3053.8	2956.1
12.5°	3444.8	3455.9	3483.1	3552.6	3626.2	3669.5	3616.1	3457.8	3234.2	3124.2	3000.2
15°	3263.5	3269.4	3302.7	3398.5	3530.5	3664.5	3714.9	3598.0	3350.0	3215.0	3066.9
17.5°	3185.7	3188.9	3212.0	3275.5	3398.5	3589.9	3770.4	3750.2	3492.3	3328.0	3148.5
20°	3146.5	3153.5	3186.7	3249.3	3326.9	3494.1	3778.5	3914.5	3661.5	3469.0	3251.2
22.5°	3258.3	3255.3	3267.4	3298.7	3364.2	3464.9	3772.3	4083.8	3877.2	3650.4	3385.4
25°	3519.4	3530.5	3509.3	3474.0	3495.1	3565.7	3804.6	4267.2	4147.3	3883.3	3560.7
27.5°	3891.3	3880.1	3849.0	3766.4	3722.9	3753.2	3911.4	4464.8	4482.8	4189.5	3792.6
30°	4262.2	4253.0	4222.8	4122.1	4033.4	4008.1	4119.1	4691.5	4882.9	4557.5	4076.7
32.5°	4647.1	4637.1	4608.8	4508.1	4401.2	4342.8	4414.4	4953.6	5354.6	4996.8	4411.2
35°	5121.9	5102.7	5043.3	4903.0	4798.3	4752.9	4786.2	5283.1	5898.9	5516.9	4817.5
37.5°	5568.4	5597.5	5537.1	5343.6	5207.6	5191.3	5228.7	5685.3	6485.5	6098.5	5284.1
40°	6016.8	6021.9	5967.4	5809.2	5669.2	5643.0	5736.7	6173.1	7177.8	6793.8	5851.5
42.5°	6480.5	6490.4	6398.7	6252.7	6149.8	6154.8	6261.6	6744.5	7972.0	7613.2	6504.5
45°	7029.6	7044.8	6944.0	6752.5	6658.7	6847.2	6803.0	7385.4	8842.7	8544.5	7254.4
47.5°	7604.2	7627.2	7550.8	7371.3	7254.4	7513.5	7344.2	8096.0	9780.0	9543.2	8077.7
50°	7917.7	7950.9	8025.4	8012.3	7987.1	7943.8	7947.8	8857.8	10746.6	10583.3	8924.4
52.5°	7749.3	7748.3	8020.3	8351.0	8703.7	8729.9	8683.6	9661.1	11649.6	11600.3	9721.5
55°	6979.3	7031.8	7443.9	8083.8	9047.4	9649.1	9786.1	10581.2	12536.4	12594.0	10530.9
57.5°	5697.3	5740.7	6296.9	7189.0	8583.8	10195.4	11354.2	11918.7	13528.2	13796.3	11608.3
60°	3864.1	3916.5	4506.1	5577.3	7336.1	9890.9	12846.9	14305.2	14715.5	15325.2	13120.0
62.5°	2270.6	2318.0	2798.8	3518.3	5165.2	8476.9	13502.1	17700.7	16601.0	17632.1	15426.0
65°	1563.2	1595.4	1829.2	2190.1	2968.1	5709.4	12689.6	20044.9	19502.7	20490.3	18099.8
67.5°	1257.7	1253.8	1439.2	1685.1	1910.9	2943.8	9595.6	19779.8	22054.6	22466.7	19487.7
70°	1036.0	1032.1	1158.0	1361.7	1526.8	1657.9	5226.7	16691.9	21534.4	21701.9	18209.6
72.5°	866.8	870.7	951.5	1102.6	1252.7	1248.7	2296.8	11742.4	16940.7	18097.8	14515.9
75°	731.7	733.6	787.2	894.0	1016.9	1005.8	1245.7	6361.4	9847.6	10652.8	8046.6
77.5°	622.9	624.9	659.1	718.6	806.3	802.2	909.1	2748.4	4107.9	4057.6	2752.3
80°	555.3	555.3	571.4	582.6	630.9	612.7	674.3	1320.2	1736.6	1603.5	1098.5
82.5°	435.4	437.5	536.2	532.2	496.9	473.6	473.6	778.0	920.1	850.7	642.9
85°	244.9	243.9	345.7	417.3	437.5	333.6	330.5	435.4	500.9	441.4	311.4
87.5°	104.8	106.8	160.3	185.4	247.9	207.6	204.6	224.8	254.9	220.8	144.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2844.2	2844.2	2844.2	2844.2	2844.2	2844.2	2844.2	2844.2	2844.2	2844.2	2844.2
2.5°	2845.1	2818.9	2761.5	2690.0	2625.4	2583.0	2544.8	2489.4	2492.3	2454.1	2425.9
5°	2843.1	2788.7	2655.7	2497.4	2345.3	2235.4	2152.8	2078.1	2060.1	2024.8	2003.6
7.5°	2845.1	2756.4	2532.7	2279.7	2091.3	1952.1	1881.6	1842.3	1833.3	1821.1	1822.2
10°	2852.2	2727.3	2397.7	2076.2	1878.6	1786.9	1769.8	1781.9	1796.0	1800.1	1801.0
12.5°	2868.3	2701.1	2249.4	1894.7	1745.5	1717.4	1746.6	1787.8	1815.1	1828.2	1827.2
15°	2904.6	2680.8	2107.5	1752.7	1672.0	1687.1	1741.5	1800.1	1839.3	1857.4	1858.5
17.5°	2943.8	2651.6	1961.3	1643.8	1617.6	1655.8	1723.4	1791.8	1840.3	1860.5	1864.5
20°	2995.3	2615.3	1808.1	1562.2	1566.1	1609.6	1673.1	1741.5	1795.0	1812.2	1820.1
22.5°	3062.9	2576.0	1674.0	1495.7	1507.7	1541.0	1590.4	1649.8	1696.2	1704.3	1711.4
25°	3153.5	2533.7	1567.3	1435.1	1440.3	1459.3	1492.7	1527.8	1560.1	1551.1	1558.1
27.5°	3275.5	2497.4	1487.6	1379.7	1370.6	1374.6	1391.8	1403.0	1420.0	1394.9	1397.9
30°	3418.6	2458.1	1426.1	1331.4	1306.1	1299.0	1303.1	1309.2	1322.2	1288.0	1283.0
32.5°	3584.9	2410.7	1368.7	1289.0	1253.8	1239.7	1241.6	1257.7	1308.2	1287.0	1276.0
35°	3778.5	2357.3	1308.2	1242.6	1218.6	1198.2	1196.4	1246.7	1396.9	1383.7	1373.7
37.5°	4005.2	2304.0	1247.7	1190.3	1192.3	1170.1	1163.0	1220.4	1414.0	1362.5	1355.5
40°	4293.4	2275.6	1196.4	1134.7	1160.0	1156.9	1143.0	1172.1	1301.1	1207.4	1195.3
42.5°	4650.2	2279.7	1158.0	1075.5	1121.8	1154.0	1131.9	1132.9	1179.1	1108.6	1097.5
45°	5090.5	2327.1	1130.7	1028.0	1078.3	1151.0	1127.7	1111.7	1115.7	1078.3	1072.3
47.5°	5604.5	2424.9	1111.7	988.7	1037.1	1139.9	1126.7	1105.6	1096.6	1076.3	1071.3
50°	6176.0	2566.9	1097.5	951.5	999.8	1121.8	1127.7	1099.5	1089.5	1081.4	1078.3
52.5°	6737.4	2729.2	1076.3	919.1	970.6	1099.5	1130.7	1093.4	1082.4	1076.3	1073.4
55°	7363.2	2931.8	1044.1	891.9	946.4	1071.3	1130.7	1084.4	1072.3	1073.4	1072.3
57.5°	8208.8	3259.3	1005.8	868.8	917.1	1037.1	1111.7	1074.4	1059.2	1060.3	1061.3
60°	9530.1	3836.8	959.5	845.6	880.9	996.8	1085.4	1052.2	1037.1	1041.0	1042.2
62.5°	11473.2	4684.4	899.1	811.3	842.6	953.5	1049.2	1024.0	1008.8	1018.9	1018.9
65°	13492.9	5432.2	824.5	768.1	802.2	906.0	1003.8	988.7	973.6	996.8	995.7
67.5°	14036.1	5265.0	749.8	720.6	761.9	853.6	949.4	941.3	933.2	973.6	971.5
70°	12469.0	4226.9	681.4	672.2	717.6	797.2	890.8	890.8	885.9	916.1	909.1
72.5°	9499.8	2997.4	615.8	620.8	667.3	735.7	827.3	834.4	826.4	841.5	835.6
75°	5085.6	1715.4	550.3	564.3	604.6	673.2	756.9	764.0	758.9	757.9	761.0
77.5°	1690.2	838.5	481.8	503.9	539.3	608.7	683.3	694.4	682.4	680.2	679.3
80°	752.9	527.0	406.2	435.4	466.6	535.2	605.6	614.8	601.7	619.8	596.7
82.5°	483.7	346.7	325.5	357.7	388.0	461.5	528.2	530.1	518.1	601.7	513.0
85°	234.8	214.7	244.9	274.2	300.4	362.8	437.5	438.5	408.2	371.9	358.9
87.5°	116.9	125.0	163.3	189.5	202.6	248.9	318.4	312.4	299.3	272.1	250.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)