

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: P298940

Luminaire Tested: **GLNA-AF-05-LED-E1-T2-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298940
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: GLNA-AF-05-LED-E1-T2-7030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22735.9 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 210
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

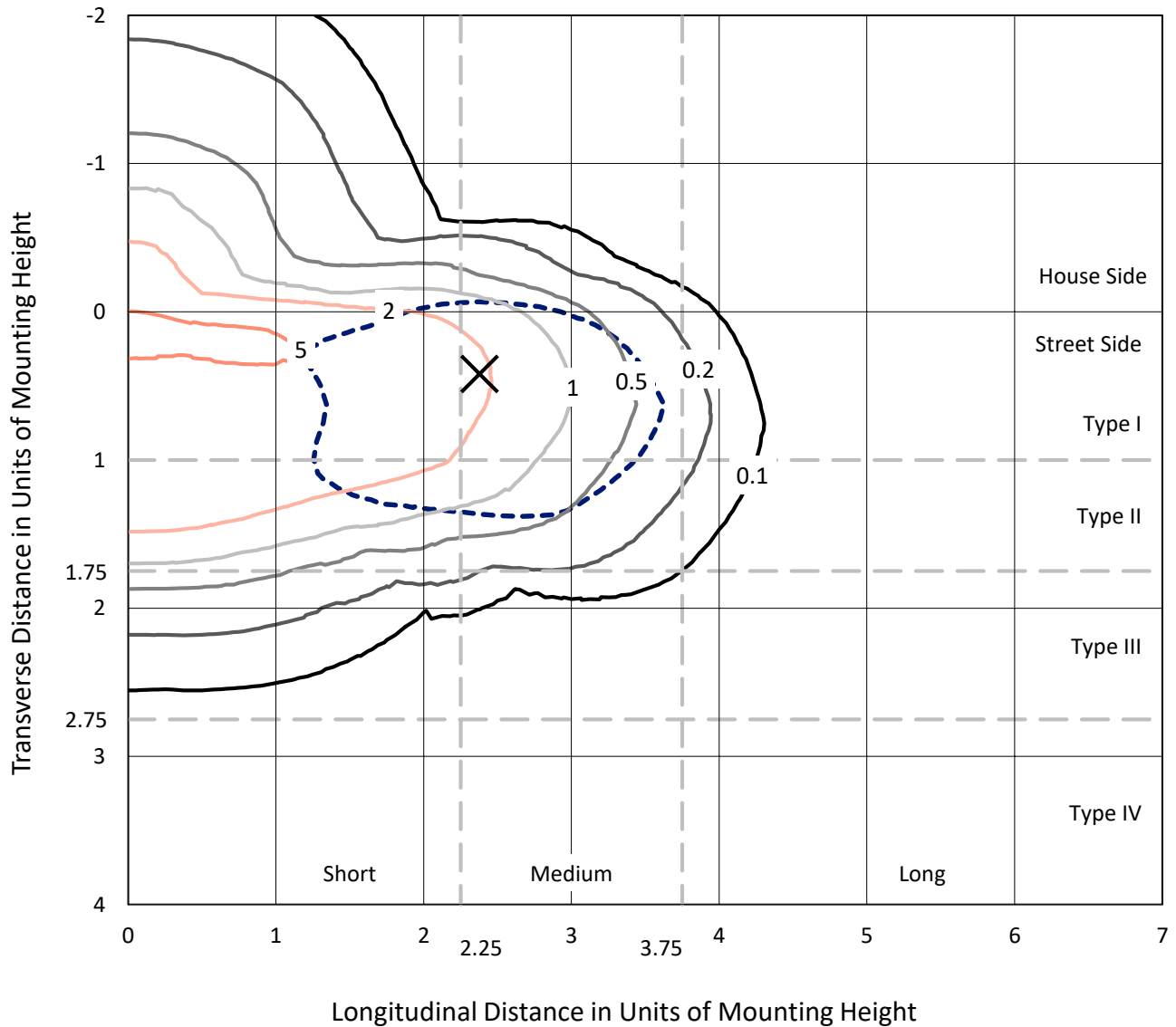


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

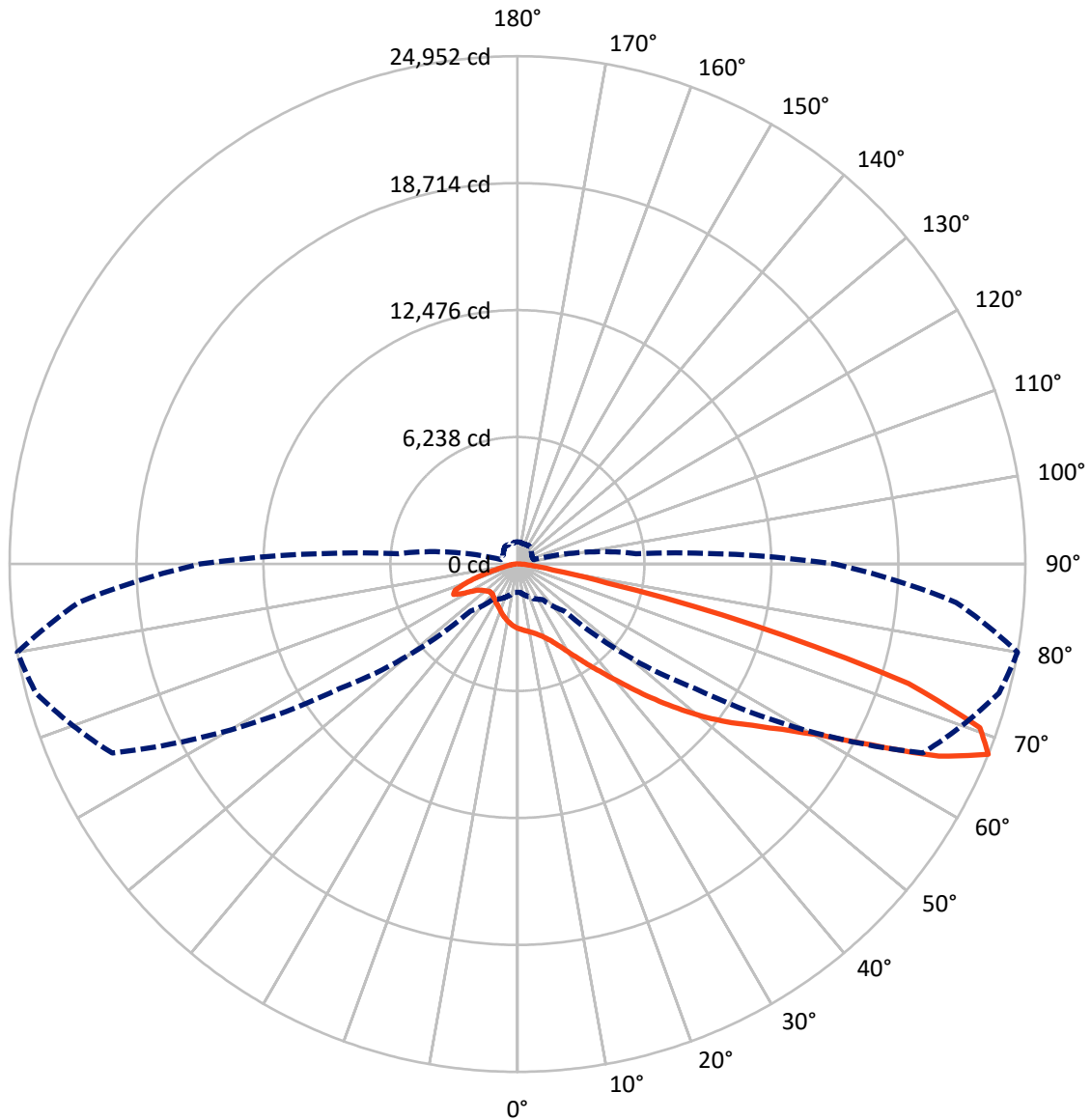


Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Medium - Full Cutoff

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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	4187.1	0.0	4187.1
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	18548.8	0.0	18548.8
	% Fixture	81.6	0.0	81.6
Total	Lumens	22735.9	0.0	22735.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.4	1.3
10°-20°	839.4	3.7
20°-30°	1389.3	6.1
30°-40°	2272.6	10.0
40°-50°	3669.3	16.1
50°-60°	5297.4	23.3
60°-70°	5846.0	25.7
70°-80°	2694.7	11.9
80°-90°	435.8	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°	22735.9	100.0
0°-180°	22735.9	100.0



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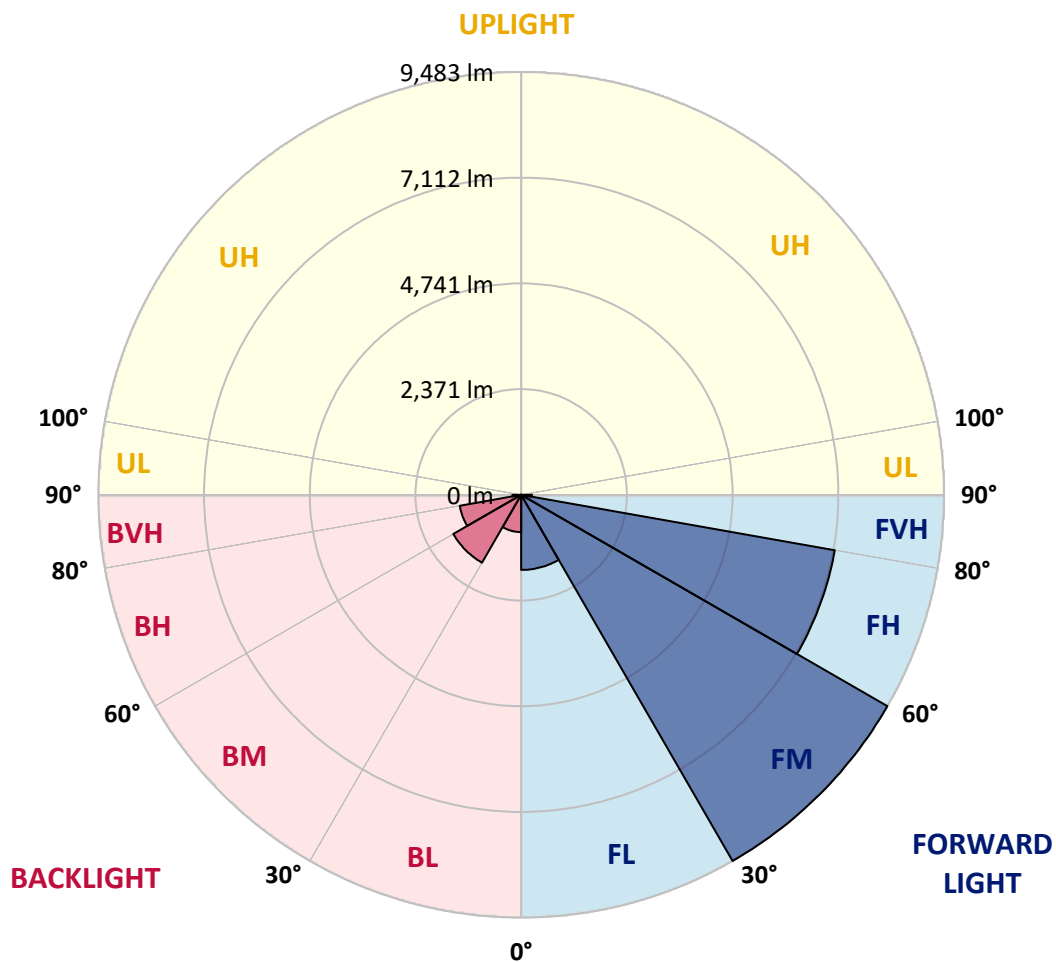
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1684.7	7.4			
FM (30°-60°)	9482.6	41.7			
FH (60°-80°)	7141.9	31.4			G3/7500
FVH (80°-90°)	239.6	1.1			G3/500
BL (0°-30°)	835.4	3.7	B2/1000		
BM (30°-60°)	1756.8	7.7	B2/2500		
BH (60°-80°)	1398.7	6.2	B3/2500		G3/2500
BVH (80°-90°)	196.2	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°	3158.7	3158.7	3158.7	3158.7	3158.7	3158.7	3158.7	3158.7	3158.7	3158.7	3158.7
2.5°	3455.3	3435.1	3438.5	3432.9	3416.1	3387.0	3355.7	3298.6	3239.3	3207.9	3183.3
5°	3744.1	3738.5	3730.6	3712.7	3670.2	3609.8	3534.8	3434.0	3325.5	3268.4	3213.5
7.5°	3960.1	3956.7	3946.7	3935.5	3894.1	3821.3	3708.3	3565.0	3407.2	3328.8	3243.7
10°	3978.0	3983.6	3991.4	4021.7	4027.3	3988.1	3872.8	3699.3	3492.2	3391.5	3282.9
12.5°	3825.8	3838.1	3868.3	3945.5	4027.3	4075.4	4016.1	3840.3	3591.8	3469.8	3332.2
15°	3624.3	3631.0	3668.0	3774.3	3920.9	4069.8	4125.8	3995.9	3720.6	3570.6	3406.0
17.5°	3538.1	3541.5	3567.2	3637.7	3774.3	3987.0	4187.3	4164.9	3878.4	3695.9	3496.7
20°	3494.5	3502.3	3539.2	3608.6	3694.8	3880.6	4196.3	4347.4	4066.4	3852.6	3610.9
22.5°	3618.7	3615.4	3628.8	3663.5	3736.2	3848.2	4189.6	4535.4	4306.0	4054.1	3759.7
25°	3908.6	3920.9	3897.4	3858.2	3881.7	3960.1	4225.4	4739.1	4605.9	4312.7	3954.5
27.5°	4321.6	4309.3	4274.6	4182.8	4134.7	4168.3	4344.0	4958.5	4978.7	4652.9	4211.9
30°	4733.5	4723.5	4689.9	4578.0	4479.5	4451.5	4574.6	5210.4	5423.0	5061.5	4527.6
32.5°	5161.1	5149.9	5118.6	5006.6	4888.0	4823.1	4902.6	5501.4	5946.9	5549.5	4899.2
35°	5688.3	5667.0	5601.0	5445.4	5329.0	5278.6	5315.6	5867.4	6551.3	6127.1	5350.3
37.5°	6184.2	6216.6	6149.5	5934.6	5783.4	5765.5	5807.0	6314.0	7202.7	6772.9	5868.5
40°	6682.2	6687.8	6627.4	6451.7	6296.1	6267.0	6371.1	6855.7	7971.7	7545.2	6498.7
42.5°	7197.1	7208.3	7106.5	6944.2	6830.0	6835.6	6954.2	7490.4	8853.7	8455.2	7224.0
45°	7807.1	7823.9	7712.0	7499.3	7395.2	7604.6	7555.3	8202.3	9820.8	9489.5	8056.8
47.5°	8445.2	8470.9	8385.8	8186.6	8056.8	8344.4	8156.4	8991.4	10861.7	10598.7	8971.2
50°	8793.3	8830.2	8913.0	8898.5	8870.5	8822.4	8826.8	9837.6	11935.1	11753.8	9911.4
52.5°	8606.3	8605.2	8907.4	9274.6	9666.3	9695.4	9643.9	10729.7	12938.0	12883.2	10796.8
55°	7751.2	7809.4	8267.2	8977.9	10048.0	10716.2	10868.4	11751.6	13923.0	13986.8	11695.6
57.5°	6327.4	6375.6	6993.4	7984.0	9533.1	11322.9	12610.1	13236.9	15024.4	15322.2	12892.1
60°	4291.4	4349.6	5004.4	6194.2	8147.4	10984.9	14267.8	15887.4	16343.0	17020.1	14571.1
62.5°	2521.8	2574.4	3108.3	3907.5	5736.4	9414.5	14995.3	19658.3	18437.2	19582.2	17132.1
65°	1736.0	1771.9	2031.5	2432.2	3296.4	6340.9	14093.2	22261.8	21659.7	22756.6	20101.6
67.5°	1396.9	1392.4	1598.4	1871.5	2122.2	3269.5	10656.9	21967.5	24493.7	24951.5	21642.9
70°	1150.6	1146.2	1286.1	1512.2	1695.7	1841.3	5804.7	18537.9	23916.2	24102.0	20223.6
72.5°	962.6	967.1	1056.6	1224.5	1391.3	1386.8	2550.9	13041.0	18814.4	20099.4	16121.3
75°	812.6	814.9	874.2	992.8	1129.4	1117.1	1383.5	7065.1	10936.7	11831.0	8936.5
77.5°	691.7	694.0	732.0	798.1	895.4	891.0	1009.6	3052.3	4562.3	4506.3	3056.8
80°	616.7	616.7	634.6	647.0	700.7	680.5	748.8	1466.3	1928.6	1780.8	1220.0
82.5°	483.5	485.8	595.5	591.0	551.8	526.1	526.1	864.1	1021.9	944.7	714.1
85°	272.0	270.9	383.9	463.4	485.8	370.5	367.1	483.5	556.3	490.3	345.9
87.5°	116.4	118.6	178.0	206.0	275.3	230.6	227.2	249.6	283.2	245.1	160.1
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°	3158.7	3158.7	3158.7	3158.7	3158.7	3158.7	3158.7	3158.7	3158.7	3158.7	3158.7
2.5°	3159.8	3130.7	3066.9	2987.4	2915.8	2868.8	2826.2	2764.7	2768.0	2725.5	2694.2
5°	3157.6	3097.1	2949.4	2773.6	2604.6	2482.6	2390.8	2308.0	2287.9	2248.7	2225.2
7.5°	3159.8	3061.3	2812.8	2531.9	2322.6	2168.1	2089.7	2046.1	2036.0	2022.6	2023.7
10°	3167.6	3028.8	2662.8	2305.8	2086.4	1984.5	1965.5	1978.9	1994.6	1999.1	2000.2
12.5°	3185.5	2999.7	2498.3	2104.3	1938.6	1907.3	1939.8	1985.6	2015.9	2030.4	2029.3
15°	3225.8	2977.3	2340.5	1946.5	1856.9	1873.7	1934.2	1999.1	2042.7	2062.9	2064.0
17.5°	3269.5	2944.9	2178.2	1825.6	1796.5	1839.0	1914.0	1990.1	2043.9	2066.2	2070.7
20°	3326.6	2904.6	2008.0	1734.9	1739.4	1787.5	1858.0	1934.2	1993.5	2012.5	2021.5
22.5°	3401.6	2860.9	1859.2	1661.0	1674.5	1711.4	1766.3	1832.3	1883.8	1892.7	1900.6
25°	3502.3	2813.9	1740.5	1593.9	1599.5	1620.8	1657.7	1696.9	1732.7	1722.6	1730.4
27.5°	3637.7	2773.6	1652.1	1532.3	1522.3	1526.7	1545.8	1558.1	1577.1	1549.1	1552.5
30°	3796.7	2730.0	1583.8	1478.6	1450.6	1442.8	1447.3	1454.0	1468.5	1430.5	1424.9
32.5°	3981.4	2677.4	1520.0	1431.6	1392.4	1376.7	1379.0	1396.9	1452.9	1429.4	1417.0
35°	4196.3	2618.1	1452.9	1380.1	1353.2	1330.9	1328.6	1384.6	1551.4	1536.8	1525.6
37.5°	4448.1	2558.7	1385.7	1321.9	1324.1	1299.5	1291.7	1355.5	1570.4	1513.3	1505.5
40°	4768.2	2527.4	1328.6	1260.3	1288.3	1285.0	1269.3	1301.8	1445.0	1340.9	1327.5
42.5°	5164.5	2531.9	1286.1	1194.3	1245.8	1281.6	1257.0	1258.1	1309.6	1231.2	1218.9
45°	5653.6	2584.5	1255.9	1141.7	1197.7	1278.2	1252.5	1234.6	1239.1	1197.7	1190.9
47.5°	6224.5	2693.0	1234.6	1098.0	1151.8	1265.9	1251.4	1227.9	1217.8	1195.4	1189.8
50°	6859.1	2850.9	1218.9	1056.6	1110.4	1245.8	1252.5	1221.2	1210.0	1201.0	1197.7
52.5°	7482.6	3031.1	1195.4	1020.8	1077.9	1221.2	1255.9	1214.4	1202.1	1195.4	1192.1
55°	8177.6	3256.1	1159.6	990.6	1051.0	1189.8	1255.9	1204.4	1190.9	1192.1	1190.9
57.5°	9116.7	3619.8	1117.1	964.8	1018.6	1151.8	1234.6	1193.2	1176.4	1177.5	1178.6
60°	10584.1	4261.2	1065.6	939.1	978.3	1107.0	1205.5	1168.6	1151.8	1156.2	1157.4
62.5°	12742.2	5202.5	998.4	901.0	935.7	1058.9	1165.2	1137.2	1120.4	1131.6	1131.6
65°	14985.2	6033.1	915.6	852.9	891.0	1006.3	1114.8	1098.0	1081.2	1107.0	1105.9
67.5°	15588.6	5847.2	832.8	800.3	846.2	948.1	1054.4	1045.4	1036.5	1081.2	1079.0
70°	13848.0	4694.4	756.6	746.6	796.9	885.4	989.5	989.5	983.9	1017.4	1009.6
72.5°	10550.6	3328.8	683.9	689.5	741.0	817.1	918.9	926.8	917.8	934.6	927.9
75°	5648.0	1905.1	611.1	626.8	671.6	747.7	840.6	848.4	842.8	841.7	845.1
77.5°	1877.1	931.3	535.0	559.7	598.8	676.1	758.9	771.2	757.8	755.5	754.4
80°	836.1	585.4	451.1	483.5	518.2	594.4	672.7	682.8	668.2	688.4	662.6
82.5°	537.3	385.0	361.5	397.4	430.9	512.6	586.5	588.8	575.3	668.2	569.7
85°	260.8	238.4	272.0	304.5	333.6	402.9	485.8	486.9	453.3	413.0	398.5
87.5°	129.8	138.8	181.3	210.4	225.0	276.5	353.7	347.0	332.4	302.2	278.7
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)