

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: P298874

Luminaire Tested: **GLNA-AF-04-LED-E1-T2-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298874
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-04-LED-E1-T2-7030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22713.7 lumens
Efficiency: N/A
Efficacy: 100.9 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

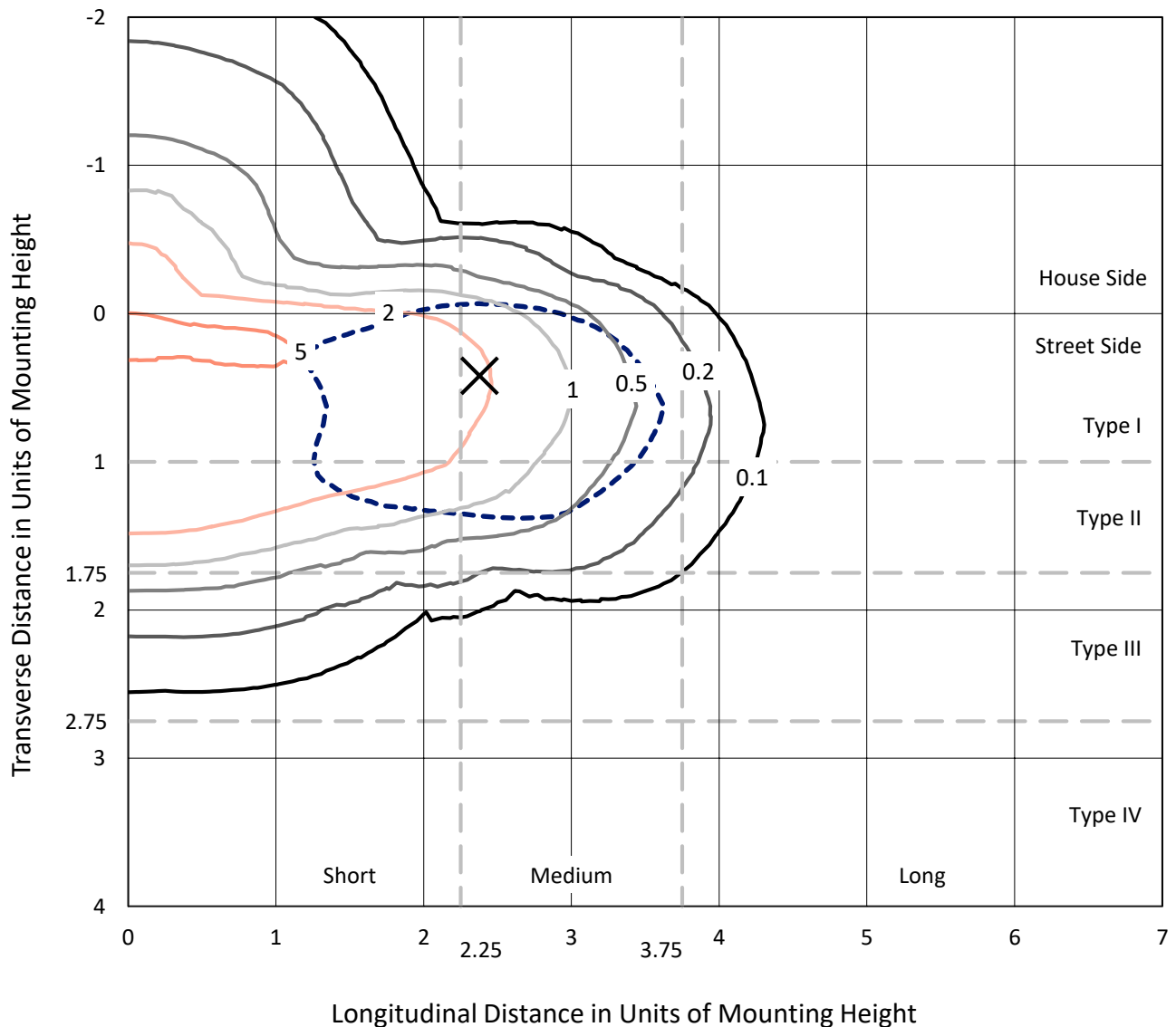
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

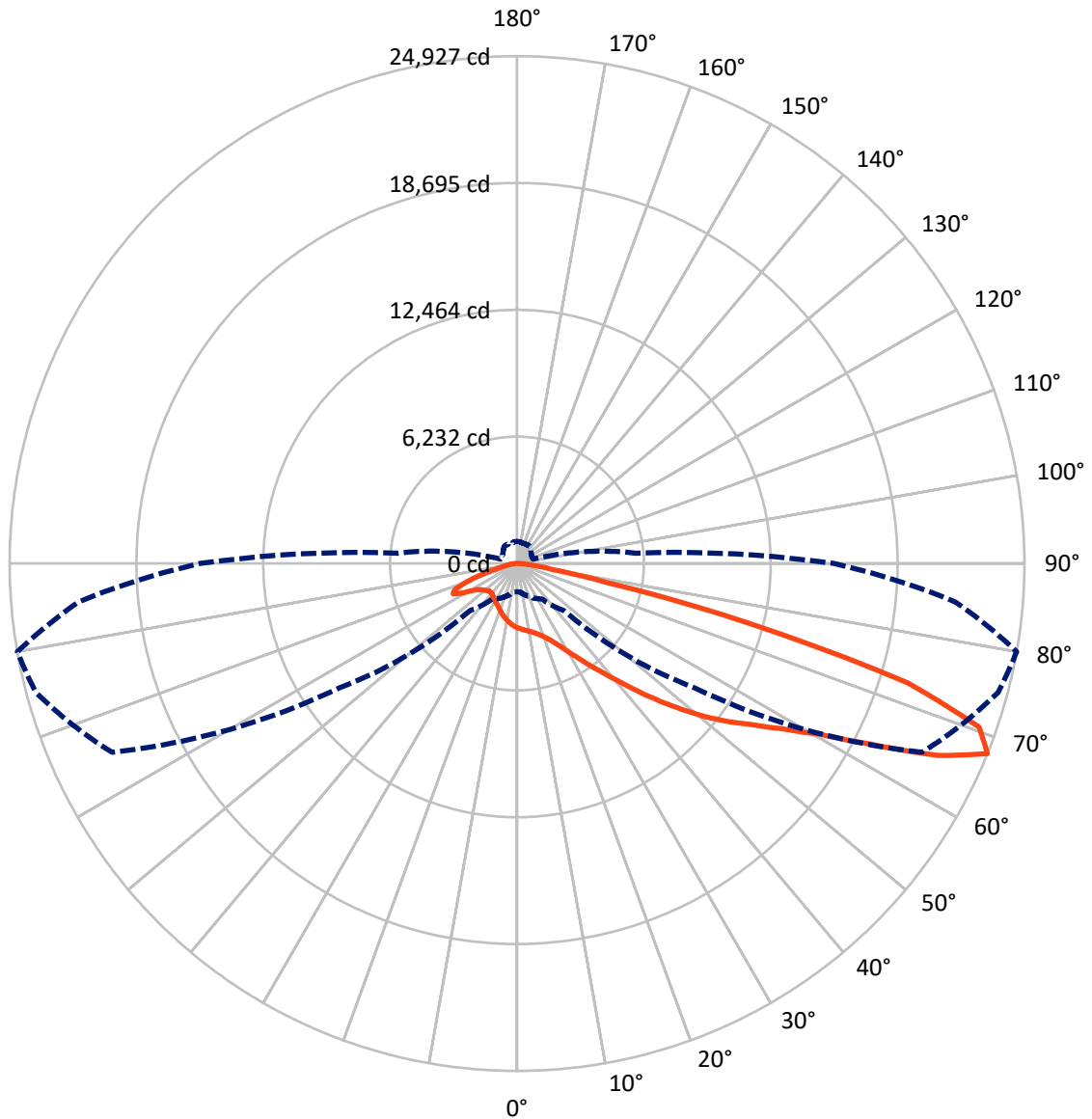
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	4183.0	0.0	4183.0
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	18530.7	0.0	18530.7
	% Fixture	81.6	0.0	81.6
Total	Lumens	22713.7	0.0	22713.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.1	1.3
10°-20°	838.5	3.7
20°-30°	1388.0	6.1
30°-40°	2270.4	10.0
40°-50°	3665.7	16.1
50°-60°	5292.2	23.3
60°-70°	5840.3	25.7
70°-80°	2692.0	11.9
80°-90°	435.4	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°	22713.7	100.0
0°-180°	22713.7	100.0



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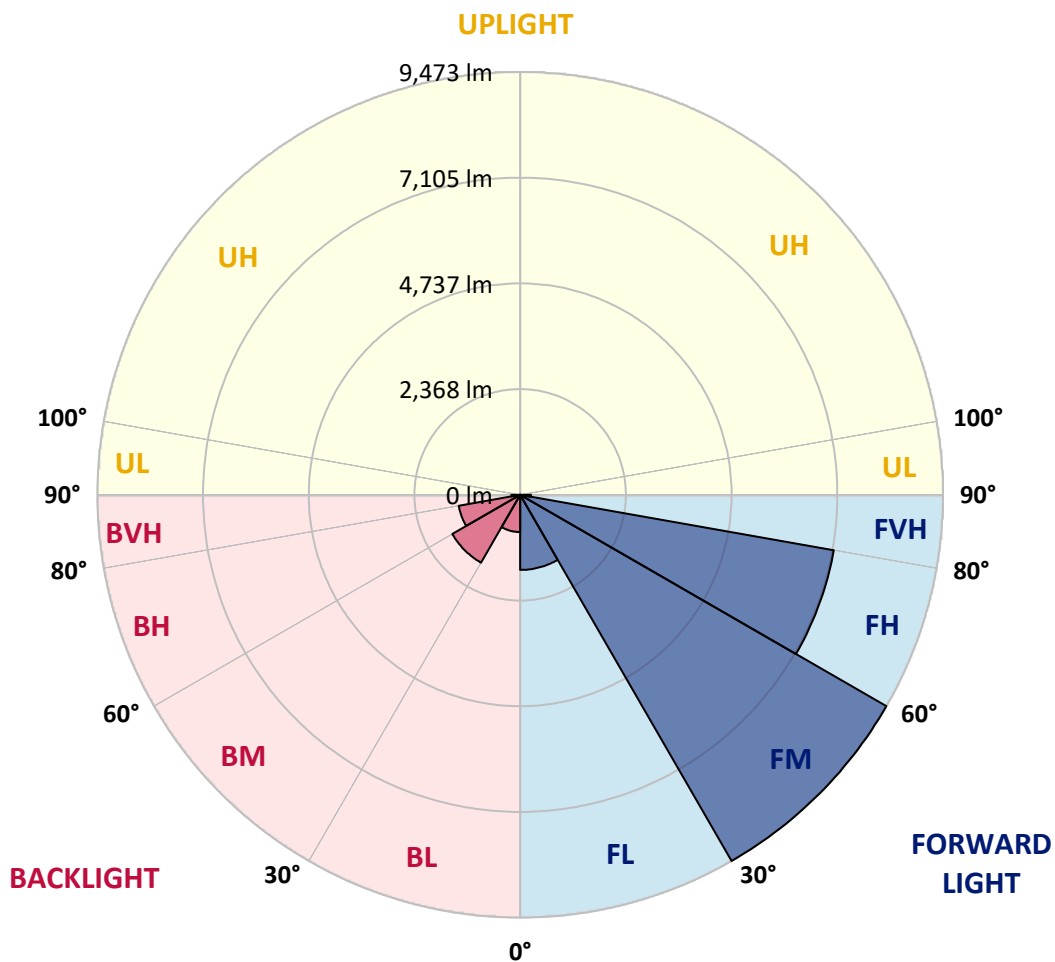
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1683.0	7.4			
FM (30°-60°)	9473.3	41.7			
FH (60°-80°)	7135.0	31.4			G3/7500
FVH (80°-90°)	239.4	1.1			G3/500
BL (0°-30°)	834.6	3.7	B2/1000		
BM (30°-60°)	1755.0	7.7	B2/2500		
BH (60°-80°)	1397.4	6.2	B3/2500		G3/2500
BVH (80°-90°)	196.0	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°	3155.6	3155.6	3155.6	3155.6	3155.6	3155.6	3155.6	3155.6	3155.6	3155.6	3155.6
2.5°	3451.9	3431.8	3435.1	3429.5	3412.8	3383.7	3352.4	3295.4	3236.1	3204.8	3180.2
5°	3740.4	3734.8	3727.0	3709.1	3666.6	3606.2	3531.3	3430.7	3322.2	3265.2	3210.4
7.5°	3956.2	3952.9	3942.8	3931.6	3890.2	3817.6	3704.6	3561.5	3403.8	3325.6	3240.6
10°	3974.1	3979.7	3987.5	4017.7	4023.3	3984.2	3869.0	3695.7	3488.8	3388.2	3279.7
12.5°	3822.0	3834.3	3864.5	3941.7	4023.3	4071.4	4012.1	3836.6	3588.3	3466.4	3328.9
15°	3620.8	3627.5	3664.4	3770.6	3917.1	4065.8	4121.7	3992.0	3716.9	3567.1	3402.7
17.5°	3534.7	3538.0	3563.7	3634.2	3770.6	3983.1	4183.2	4160.9	3874.6	3692.3	3493.3
20°	3491.0	3498.9	3535.8	3605.1	3691.2	3876.8	4192.2	4343.1	4062.5	3848.9	3607.3
22.5°	3615.2	3611.8	3625.2	3659.9	3732.6	3844.4	4185.5	4531.0	4301.7	4050.2	3756.1
25°	3904.8	3917.1	3893.6	3854.5	3877.9	3956.2	4221.2	4734.5	4601.4	4308.5	3950.6
27.5°	4317.4	4305.1	4270.4	4178.7	4130.7	4164.2	4339.8	4953.7	4973.8	4648.4	4207.8
30°	4728.9	4718.8	4685.3	4573.5	4475.1	4447.1	4570.1	5205.3	5417.7	5056.5	4523.2
32.5°	5156.1	5144.9	5113.6	5001.7	4883.2	4818.4	4897.8	5496.0	5941.0	5544.1	4894.4
35°	5682.7	5661.5	5595.5	5440.1	5323.8	5273.5	5310.4	5861.7	6544.9	6121.1	5345.0
37.5°	6178.1	6210.5	6143.4	5928.7	5777.8	5759.9	5801.3	6307.8	7195.7	6766.3	5862.8
40°	6675.7	6681.3	6620.9	6445.4	6289.9	6260.9	6364.8	6849.0	7963.9	7537.8	6492.3
42.5°	7190.1	7201.3	7099.5	6937.4	6823.3	6828.9	6947.4	7483.1	8845.0	8447.0	7216.9
45°	7799.5	7816.3	7704.5	7492.0	7388.0	7597.1	7547.9	8194.2	9811.2	9480.2	8048.9
47.5°	8436.9	8462.6	8377.6	8178.6	8048.9	8336.2	8148.4	8982.6	10851.1	10588.3	8962.4
50°	8784.6	8821.6	8904.3	8889.8	8861.8	8813.7	8818.2	9827.9	11923.5	11742.3	9901.7
52.5°	8597.9	8596.8	8898.7	9265.5	9656.9	9685.9	9634.5	10719.2	12925.4	12870.6	10786.2
55°	7743.6	7801.7	8259.1	8969.2	10038.2	10705.7	10857.8	11740.1	13909.4	13973.1	11684.2
57.5°	6321.2	6369.3	6986.6	7976.2	9523.8	11311.8	12597.7	13223.9	15009.7	15307.2	12879.5
60°	4287.2	4345.4	4999.5	6188.2	8139.4	10974.1	14253.8	15871.9	16327.0	17003.5	14556.8
62.5°	2519.3	2571.9	3105.3	3903.7	5730.8	9405.3	14980.6	19639.1	18419.1	19563.1	17115.3
65°	1734.3	1770.1	2029.5	2429.9	3293.1	6334.7	14079.4	22240.1	21638.5	22734.3	20081.9
67.5°	1395.5	1391.1	1596.8	1869.6	2120.1	3266.3	10646.5	21946.0	24469.8	24927.1	21621.7
70°	1149.5	1145.0	1284.8	1510.7	1694.1	1839.5	5799.0	18519.8	23892.8	24078.4	20203.8
72.5°	961.7	966.1	1055.6	1223.3	1389.9	1385.5	2548.4	13028.3	18796.0	20079.7	16105.6
75°	811.8	814.1	873.3	991.9	1128.3	1116.0	1382.1	7058.1	10926.0	11819.5	8927.8
77.5°	691.1	693.3	731.3	797.3	894.6	890.1	1008.6	3049.4	4557.8	4501.9	3053.8
80°	616.1	616.1	634.0	646.3	700.0	679.9	748.1	1464.9	1926.7	1779.1	1218.8
82.5°	483.1	485.3	594.9	590.4	551.3	525.6	525.6	863.3	1020.9	943.8	713.4
85°	271.7	270.6	383.5	462.9	485.3	370.1	366.8	483.1	555.7	489.8	345.5
87.5°	116.3	118.5	177.8	205.8	275.1	230.4	227.0	249.4	282.9	244.9	159.9
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°	3155.6	3155.6	3155.6	3155.6	3155.6	3155.6	3155.6	3155.6	3155.6	3155.6	3155.6
2.5°	3156.7	3127.6	3063.9	2984.5	2912.9	2866.0	2823.5	2762.0	2765.3	2722.8	2691.5
5°	3154.5	3094.1	2946.5	2770.9	2602.1	2480.2	2388.5	2305.7	2285.6	2246.5	2223.0
7.5°	3156.7	3058.3	2810.1	2529.4	2320.3	2166.0	2087.7	2044.1	2034.0	2020.6	2021.7
10°	3164.5	3025.9	2660.2	2303.5	2084.3	1982.6	1963.6	1977.0	1992.6	1997.1	1998.2
12.5°	3182.4	2996.8	2495.8	2102.2	1936.7	1905.4	1937.9	1983.7	2013.9	2028.4	2027.3
15°	3222.7	2974.4	2338.2	1944.6	1855.1	1871.9	1932.3	1997.1	2040.7	2060.9	2062.0
17.5°	3266.3	2942.0	2176.0	1823.8	1794.7	1837.2	1912.1	1988.2	2041.8	2064.2	2068.7
20°	3323.3	2901.8	2006.1	1733.2	1737.7	1785.8	1856.2	1932.3	1991.5	2010.5	2019.5
22.5°	3398.2	2858.1	1857.3	1659.4	1672.8	1709.7	1764.5	1830.5	1881.9	1890.9	1898.7
25°	3498.9	2811.2	1738.8	1592.3	1597.9	1619.2	1656.1	1695.2	1731.0	1720.9	1728.8
27.5°	3634.2	2770.9	1650.5	1530.8	1520.8	1525.2	1544.2	1556.5	1575.6	1547.6	1551.0
30°	3793.0	2727.3	1582.3	1477.2	1449.2	1441.4	1445.8	1452.6	1467.1	1429.1	1423.5
32.5°	3977.5	2674.8	1518.5	1430.2	1391.1	1375.4	1377.6	1395.5	1451.4	1428.0	1415.7
35°	4192.2	2615.5	1451.4	1378.8	1351.9	1329.6	1327.3	1383.2	1549.8	1535.3	1524.1
37.5°	4443.8	2556.2	1384.3	1320.6	1322.8	1298.2	1290.4	1354.2	1568.8	1511.8	1504.0
40°	4763.6	2524.9	1327.3	1259.1	1287.1	1283.7	1268.0	1300.5	1443.6	1339.6	1326.2
42.5°	5159.4	2529.4	1284.8	1193.1	1244.6	1280.3	1255.7	1256.9	1308.3	1230.0	1217.7
45°	5648.1	2581.9	1254.6	1140.6	1196.5	1277.0	1251.3	1233.4	1237.9	1196.5	1189.8
47.5°	6218.4	2690.4	1233.4	1097.0	1150.6	1264.7	1250.2	1226.7	1216.6	1194.2	1188.7
50°	6852.4	2848.1	1217.7	1055.6	1109.3	1244.6	1251.3	1220.0	1208.8	1199.8	1196.5
52.5°	7475.2	3028.1	1194.2	1019.8	1076.8	1220.0	1254.6	1213.3	1201.0	1194.2	1190.9
55°	8169.6	3252.9	1158.5	989.6	1050.0	1188.7	1254.6	1203.2	1189.8	1190.9	1189.8
57.5°	9107.8	3616.3	1116.0	963.9	1017.6	1150.6	1233.4	1192.0	1175.2	1176.4	1177.5
60°	10573.8	4257.0	1064.5	938.2	977.3	1105.9	1204.3	1167.4	1150.6	1155.1	1156.2
62.5°	12729.7	5197.4	997.4	900.2	934.8	1057.8	1164.1	1136.1	1119.3	1130.5	1130.5
65°	14970.6	6027.1	914.7	852.1	890.1	1005.3	1113.7	1097.0	1080.2	1105.9	1104.8
67.5°	15573.3	5841.5	831.9	799.5	845.4	947.1	1053.4	1044.4	1035.5	1080.2	1078.0
70°	13834.5	4689.8	755.9	745.8	796.2	884.5	988.5	988.5	982.9	1016.5	1008.6
72.5°	10540.2	3325.6	683.2	688.8	740.3	816.3	918.0	925.9	916.9	933.7	927.0
75°	5642.5	1903.2	610.5	626.2	670.9	747.0	839.8	847.6	842.0	840.9	844.2
77.5°	1875.2	930.3	534.5	559.1	598.2	675.4	758.1	770.4	757.0	754.8	753.7
80°	835.3	584.8	450.6	483.1	517.7	593.8	672.0	682.1	667.6	687.7	662.0
82.5°	536.7	384.7	361.2	397.0	430.5	512.1	585.9	588.2	574.8	667.6	569.2
85°	260.5	238.2	271.7	304.2	333.2	402.6	485.3	486.4	452.9	412.6	398.1
87.5°	129.7	138.7	181.1	210.2	224.8	276.2	353.4	346.6	332.1	301.9	278.4
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)