

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: P299192

Luminaire Tested: **GLNA-AF-07-LED-E1-T3-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299192
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-07-LED-E1-T3-7030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32794.9 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 295
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

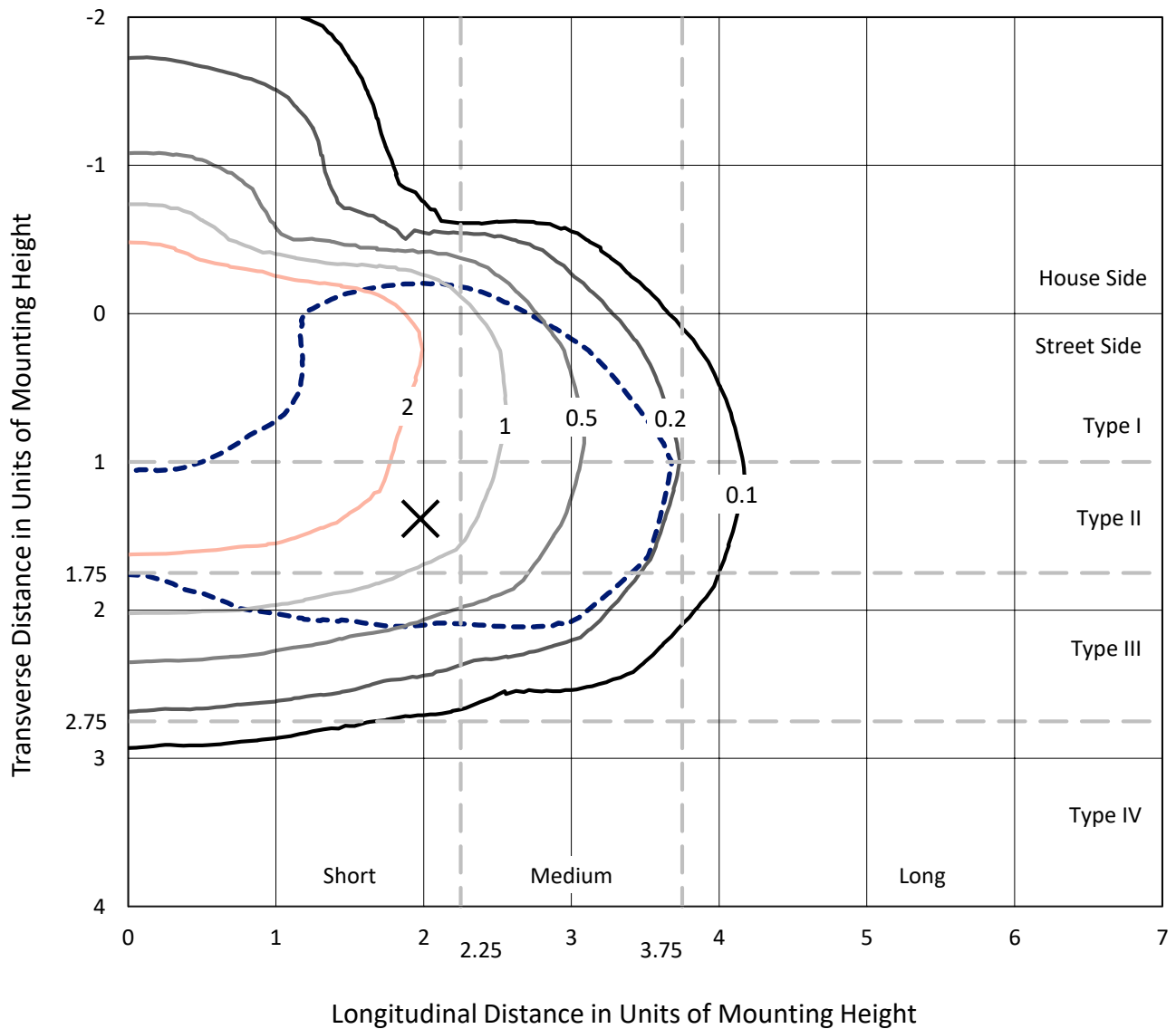


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Iso-Footcandle Lines of Horizontal Illumination

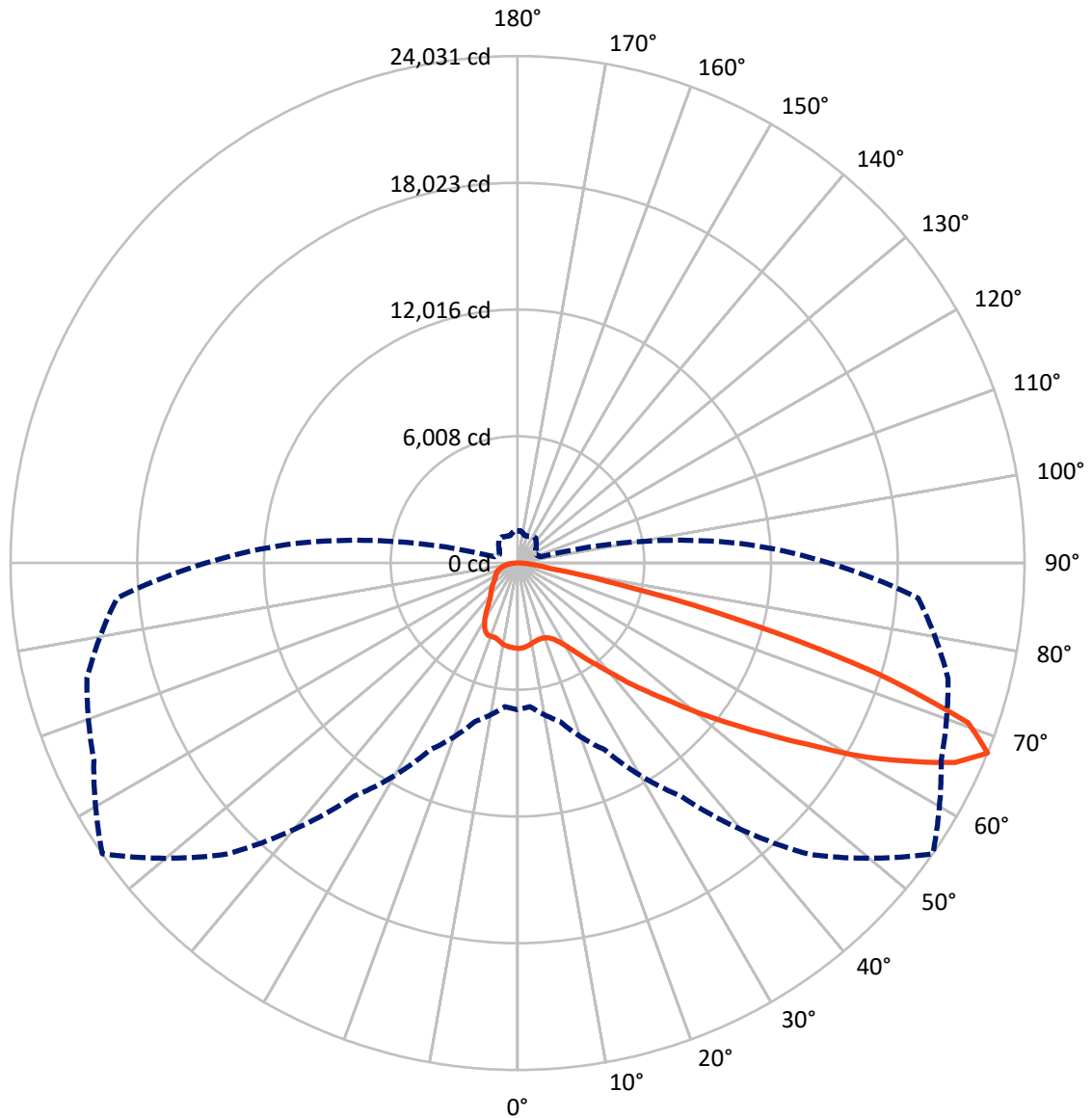
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7084.4	0.0	7084.4
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	25710.5	0.0	25710.5
	% Fixture	78.4	0.0	78.4
Total	Lumens	32794.9	0.0	32794.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.5	1.2
10°-20°	1069.0	3.3
20°-30°	1790.8	5.5
30°-40°	2944.8	9.0
40°-50°	4957.0	15.1
50°-60°	7801.9	23.8
60°-70°	9310.7	28.4
70°-80°	3998.2	12.2
80°-90°	545.1	1.7
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°	32794.9	100.0
0°-180°	32794.9	100.0



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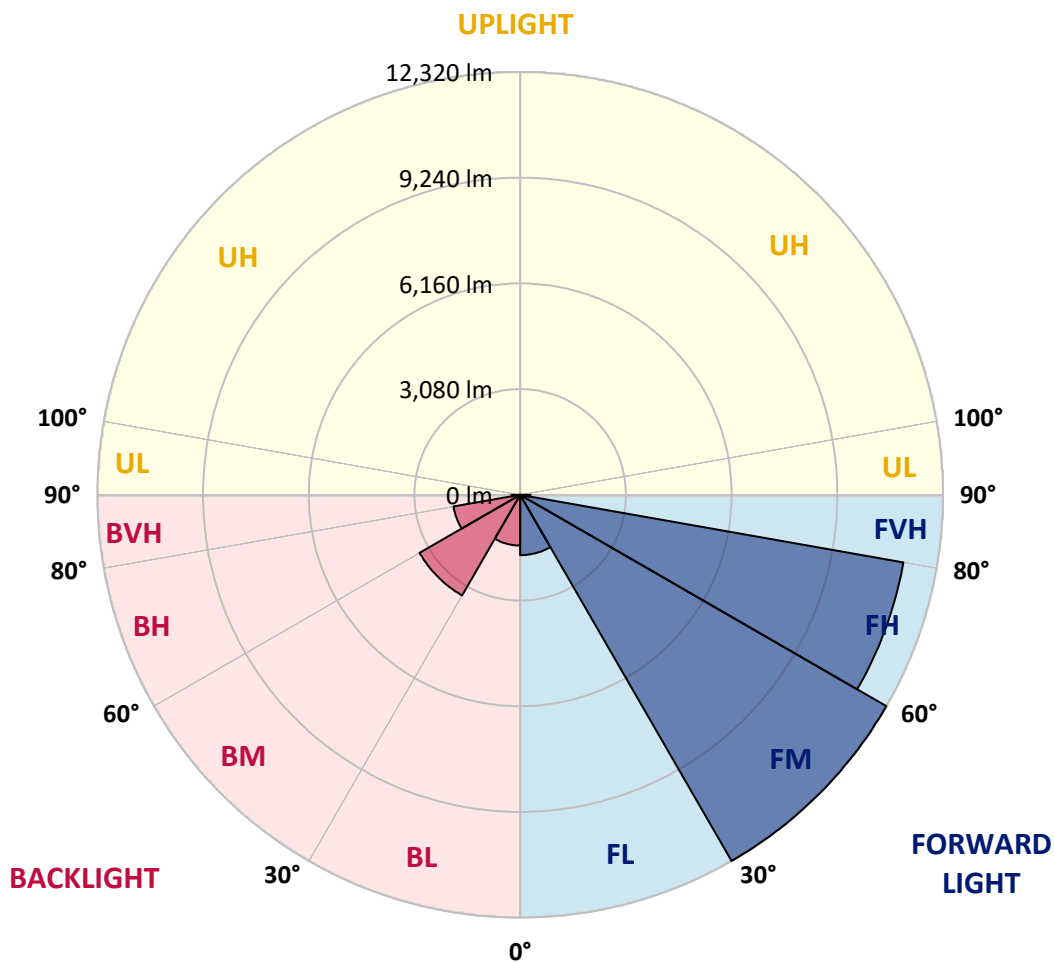
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1757.9	5.4			
FM	(30°-60°)	12320.2	37.6			
FH	(60°-80°)	11337.4	34.6			G4/12000
FVH	(80°-90°)	295.1	0.9			G3/500
BL	(0°-30°)	1479.4	4.5	B3/2500		
BM	(30°-60°)	3383.4	10.3	B3/5000		
BH	(60°-80°)	1971.6	6.0	B3/2500		G3/2500
BVH	(80°-90°)	250.0	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4044.0	4044.0	4044.0	4044.0	4044.0	4044.0	4044.0	4044.0	4044.0	4044.0	4044.0
2.5°	4009.1	4010.7	4013.9	4026.5	4037.6	4034.5	4036.0	4029.7	4028.1	4018.6	4028.1
5°	3958.4	3963.2	3964.8	3985.4	3998.0	4001.2	3996.4	3988.5	3979.0	3969.5	3974.3
7.5°	3842.8	3855.5	3857.1	3885.6	3906.2	3933.1	3934.7	3936.3	3931.5	3925.2	3934.7
10°	3769.9	3773.1	3771.5	3792.1	3808.0	3838.0	3855.5	3885.6	3898.2	3901.4	3907.7
12.5°	3765.2	3762.0	3757.3	3757.3	3752.5	3765.2	3796.9	3839.6	3869.7	3879.2	3887.2
15°	3815.9	3814.3	3798.4	3774.7	3744.6	3735.1	3762.0	3809.5	3849.1	3869.7	3877.6
17.5°	3929.9	3920.4	3895.1	3841.2	3776.3	3750.9	3754.1	3793.7	3839.6	3866.6	3874.5
20°	4139.0	4139.0	4085.2	3983.8	3868.1	3808.0	3779.4	3803.2	3847.6	3884.0	3895.1
22.5°	4500.2	4503.3	4413.0	4246.7	4051.9	3923.6	3852.3	3847.6	3899.8	3941.0	3953.7
25°	5011.8	4999.1	4872.4	4634.8	4338.6	4126.3	4002.8	3974.3	4018.6	4064.6	4080.4
27.5°	5607.4	5561.4	5411.0	5124.3	4740.9	4430.5	4240.4	4194.4	4237.2	4289.5	4305.3
30°	6196.6	6149.1	5970.1	5656.5	5230.4	4837.6	4565.1	4490.7	4550.8	4625.3	4634.8
32.5°	6785.9	6785.9	6586.3	6220.4	5756.3	5323.8	4997.5	4908.8	5008.6	5098.9	5119.5
35°	7490.8	7493.9	7300.7	6860.3	6361.4	5903.6	5544.0	5479.1	5629.6	5692.9	5742.0
37.5°	8357.2	8374.6	8126.0	7593.7	7047.2	6565.7	6138.0	6049.3	6199.8	6372.5	6530.9
40°	9293.4	9315.5	9041.5	8385.7	7839.2	7335.5	6873.0	6713.0	6963.3	7292.8	7497.1
42.5°	10186.7	10300.8	10036.3	9361.5	8773.8	8252.7	7783.8	7551.0	7864.6	8362.0	8539.4
45°	11477.7	11560.1	11099.1	10487.7	9934.9	9352.0	8731.0	8485.5	8924.3	9551.6	9588.0
47.5°	12337.8	12276.0	12041.6	11661.5	11311.4	10766.5	9831.9	9562.6	10145.6	10883.7	10679.4
50°	12795.6	12814.6	12782.9	12805.1	12817.8	12475.6	11181.5	10812.4	11507.8	12399.6	11929.1
52.5°	13223.3	13096.6	13201.1	13720.7	14347.9	14221.2	12649.9	12265.0	12968.3	14081.8	13250.2
55°	13213.8	13020.5	13361.1	14278.2	15638.9	15784.6	14298.8	13855.3	14512.7	15886.0	14650.5
57.5°	12746.5	12756.0	13280.3	14481.0	16538.6	17254.6	16212.3	15547.0	16150.5	17713.9	15928.8
60°	12103.4	12190.5	12946.1	14447.7	17259.3	18460.0	18559.8	17370.2	17755.1	19375.6	16986.9
62.5°	11065.9	11157.7	12200.0	14102.4	17150.0	19621.1	20682.4	19438.9	19432.6	20383.0	17297.3
65°	9429.6	9402.7	10497.2	12811.4	16232.9	20479.6	22790.7	21227.3	20696.6	20398.8	16673.2
67.5°	6953.8	6833.4	7772.7	9757.5	13492.6	19518.1	24031.0	22158.7	21127.5	19057.2	14766.1
70°	3608.4	3488.0	4248.3	5697.7	8873.6	15233.4	22657.6	21677.1	20175.5	15974.7	11568.0
72.5°	1542.8	1522.2	1831.1	2499.6	4292.7	8786.5	17766.2	18762.6	17311.6	11902.2	7953.3
75°	1037.5	1031.2	1146.8	1362.2	1930.9	3565.6	11118.1	13318.3	12665.7	7379.9	4473.2
77.5°	814.2	806.3	874.4	978.9	1251.4	1406.6	4934.2	7150.2	6618.0	3212.4	1957.8
80°	636.8	630.4	673.2	730.2	899.7	887.0	1623.6	2844.9	2201.8	1230.8	952.0
82.5°	502.1	502.1	537.0	538.6	638.4	605.1	847.4	1252.9	1099.3	717.6	582.9
85°	459.4	459.4	495.8	402.3	416.6	381.7	525.9	742.9	697.0	294.6	253.4
87.5°	231.3	224.9	416.6	356.4	226.5	202.8	256.6	359.6	386.5	163.2	126.7
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°	4044.0	4044.0	4044.0	4044.0	4044.0	4044.0	4044.0	4044.0	4044.0	4044.0
2.5°	4025.0	4023.4	4026.5	4028.1	4040.8	4058.2	4066.1	4077.2	4083.6	4080.4
5°	3977.4	3980.6	3993.3	4002.8	4025.0	4053.5	4069.3	4082.0	4093.1	4088.3
7.5°	3937.8	3945.8	3964.8	3972.7	3985.4	3993.3	3991.7	3996.4	4006.0	3994.9
10°	3915.7	3925.2	3939.4	3928.3	3898.2	3855.5	3815.9	3795.3	3801.6	3793.7
12.5°	3893.5	3906.2	3895.1	3842.8	3758.8	3703.4	3673.3	3676.5	3690.7	3693.9
15°	3880.8	3885.6	3838.0	3739.8	3654.3	3646.4	3662.2	3659.1	3660.6	3660.6
17.5°	3880.8	3868.1	3779.4	3681.2	3644.8	3630.5	3581.4	3519.7	3492.7	3483.2
20°	3901.4	3868.1	3760.4	3695.5	3616.3	3494.3	3364.4	3250.4	3199.7	3185.4
22.5°	3963.2	3906.2	3814.3	3701.8	3476.9	3272.6	3066.6	2930.4	2838.5	2822.7
25°	4088.3	4025.0	3920.4	3617.9	3255.1	2963.7	2729.2	2577.2	2485.3	2472.6
27.5°	4306.9	4265.7	3977.4	3432.5	2960.5	2648.5	2431.4	2314.2	2246.1	2241.4
30°	4636.4	4615.8	3948.9	3158.5	2597.8	2342.7	2238.2	2170.1	2119.4	2117.8
32.5°	5162.3	4996.0	3855.5	2824.3	2266.7	2125.7	2083.0	2041.8	2002.2	2002.2
35°	5838.6	5303.3	3678.1	2466.3	2065.5	2005.4	1951.5	1886.6	1834.3	1831.1
37.5°	6633.8	5493.3	3359.7	2178.0	1970.5	1924.6	1845.4	1748.7	1656.9	1641.0
40°	7436.9	5550.4	2911.4	2000.6	1910.3	1843.8	1747.2	1633.1	1544.4	1539.7
42.5°	8173.5	5441.1	2436.2	1878.6	1850.1	1761.4	1660.0	1558.7	1489.0	1487.4
45°	8791.2	5157.5	2037.0	1763.0	1786.8	1687.0	1596.7	1514.3	1460.5	1449.4
47.5°	9372.6	4756.8	1756.7	1641.0	1723.4	1645.8	1569.8	1492.1	1439.9	1431.9
50°	10047.4	4324.3	1560.2	1522.2	1668.0	1631.5	1591.9	1511.1	1424.0	1414.5
52.5°	10864.7	3950.5	1406.6	1417.7	1625.2	1650.5	1649.0	1565.0	1412.9	1400.3
55°	11777.1	3535.5	1291.0	1332.1	1607.8	1685.4	1663.2	1615.7	1422.4	1403.4
57.5°	12675.2	3050.8	1210.2	1267.2	1582.4	1682.2	1595.1	1527.0	1444.6	1417.7
60°	13348.4	2399.8	1148.4	1210.2	1527.0	1629.9	1520.6	1430.4	1439.9	1419.3
62.5°	13392.8	1854.9	1074.0	1161.1	1443.0	1577.7	1471.5	1387.6	1460.5	1441.4
65°	12605.5	1401.8	1002.7	1102.5	1352.7	1544.4	1424.0	1363.8	1503.2	1482.6
67.5°	10612.8	1127.8	942.5	1042.3	1262.5	1474.7	1381.3	1341.7	1541.2	1504.8
70°	7661.8	961.5	883.9	969.4	1181.7	1395.5	1343.2	1302.1	1438.3	1381.3
72.5°	4717.2	833.2	817.3	872.8	1119.9	1313.1	1286.2	1227.6	1295.7	1249.8
75°	2355.4	722.3	742.9	777.7	1032.8	1219.7	1191.2	1132.6	1142.1	1132.6
77.5°	1127.8	617.8	655.8	682.7	920.3	1113.6	1083.5	1023.3	1012.2	1013.8
80°	714.4	516.4	552.8	571.8	822.1	990.0	959.9	899.7	1026.4	952.0
82.5°	446.7	419.8	429.3	464.1	716.0	861.7	822.1	768.2	925.1	731.8
85°	247.1	293.0	305.7	335.8	551.2	720.7	681.1	613.0	549.7	540.1
87.5°	147.3	174.2	179.0	201.2	370.7	521.1	460.9	437.2	362.7	361.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)