

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: P299125

Luminaire Tested: **GLNA-AF-06-LED-E1-T3-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299125
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-06-LED-E1-T3-7027
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30832.1 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

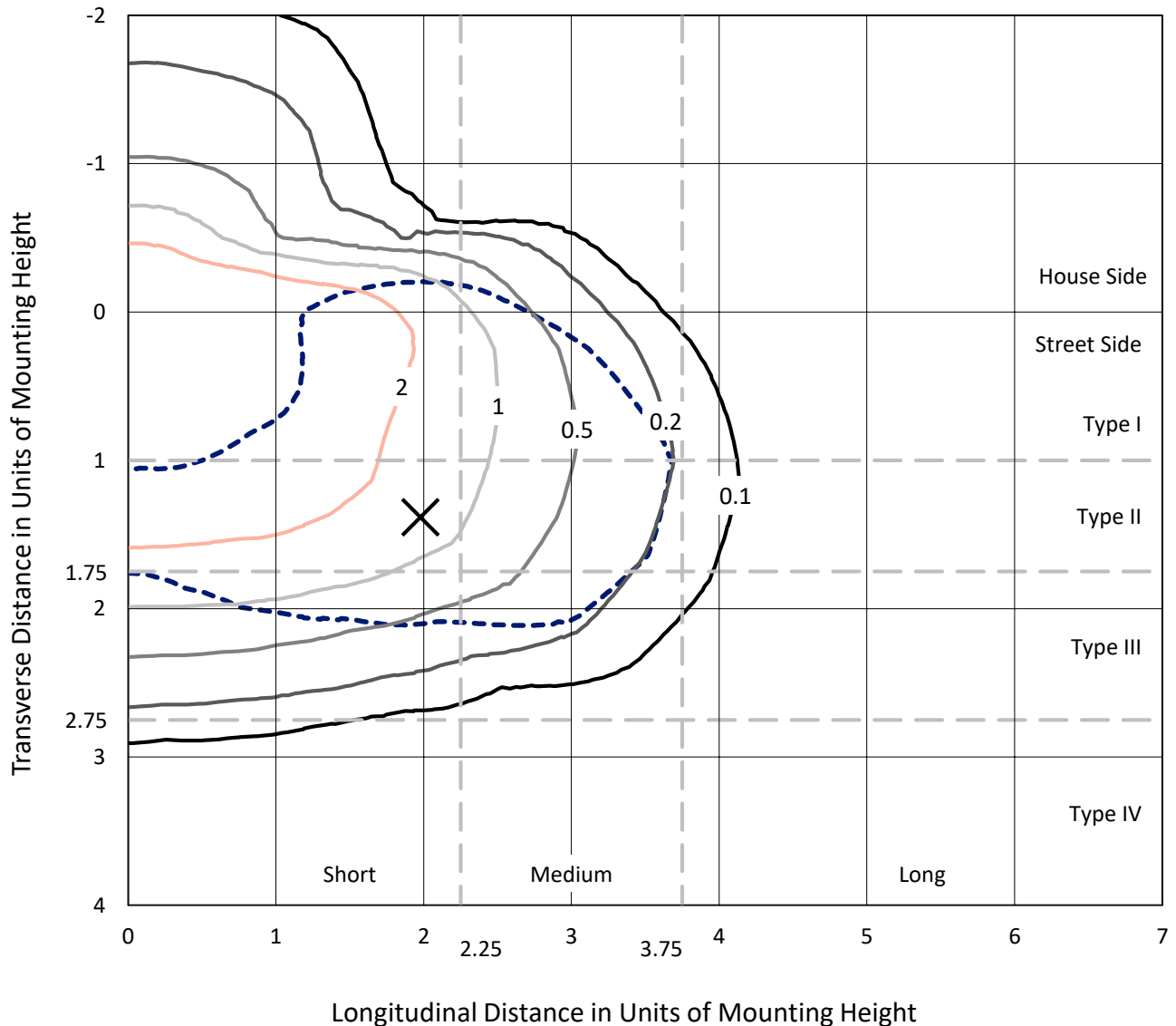
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P299125
 CATALOG NUMBER: GLNA-AF-06-LED-E1-T3-7027

Iso-Footcandle Lines of Horizontal Illumination

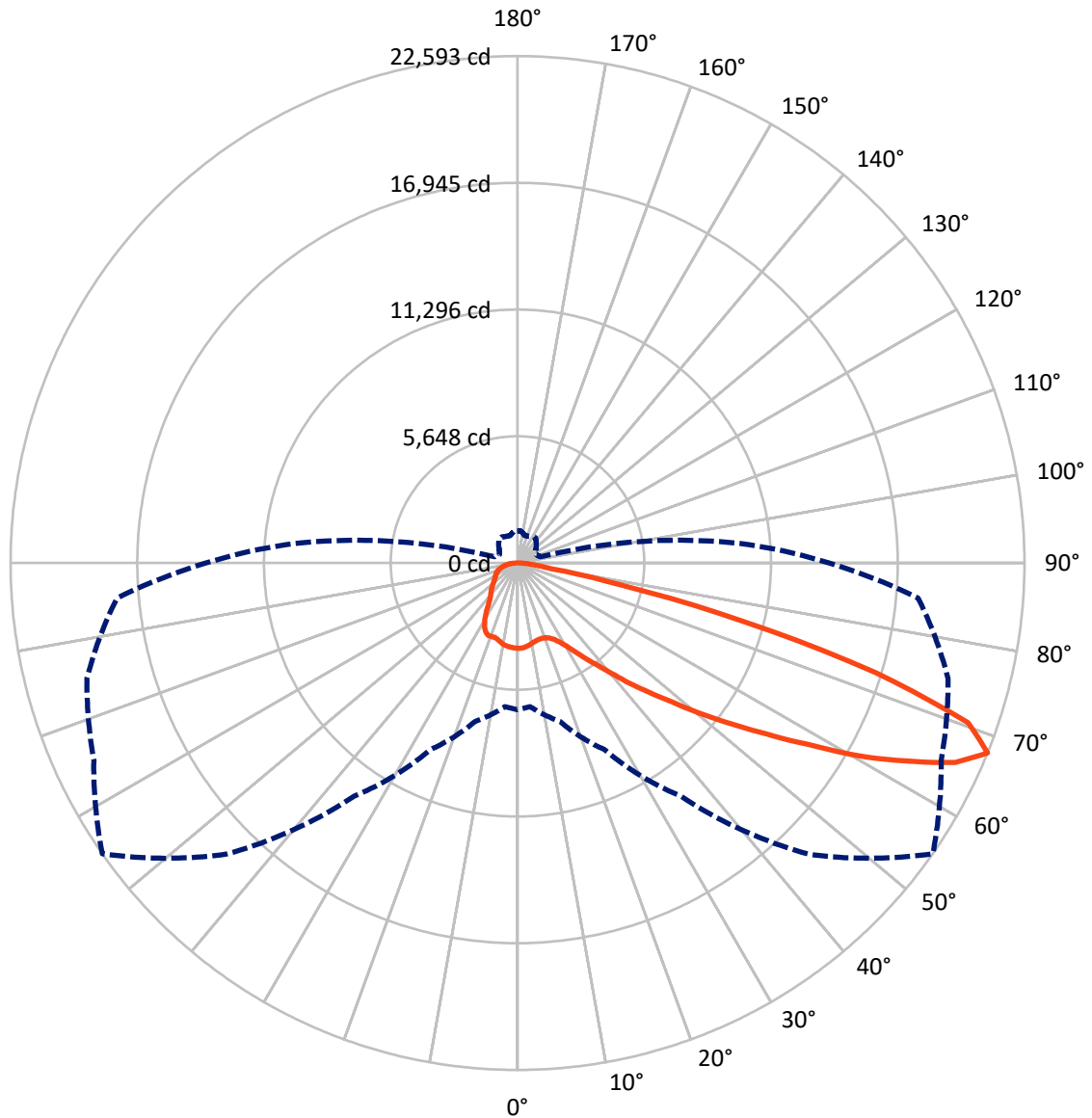
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P299125
CATALOG NUMBER: GLNA-AF-06-LED-E1-T3-7027

Luminous Intensity Polar Plot



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

REPORT NUMBER: P299125

CATALOG NUMBER: GLNA-AF-06-LED-E1-T3-7027

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6660.4	0.0	6660.4
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	24171.7	0.0	24171.7
	% Fixture	78.4	0.0	78.4
Total	Lumens	30832.1	0.0	30832.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.9	1.2
10°-20°	1005.0	3.3
20°-30°	1683.6	5.5
30°-40°	2768.5	9.0
40°-50°	4660.3	15.1
50°-60°	7334.9	23.8
60°-70°	8753.5	28.4
70°-80°	3758.9	12.2
80°-90°	512.5	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°	30832.1	100.0
0°-180°	30832.1	100.0



REPORT NUMBER: P299125

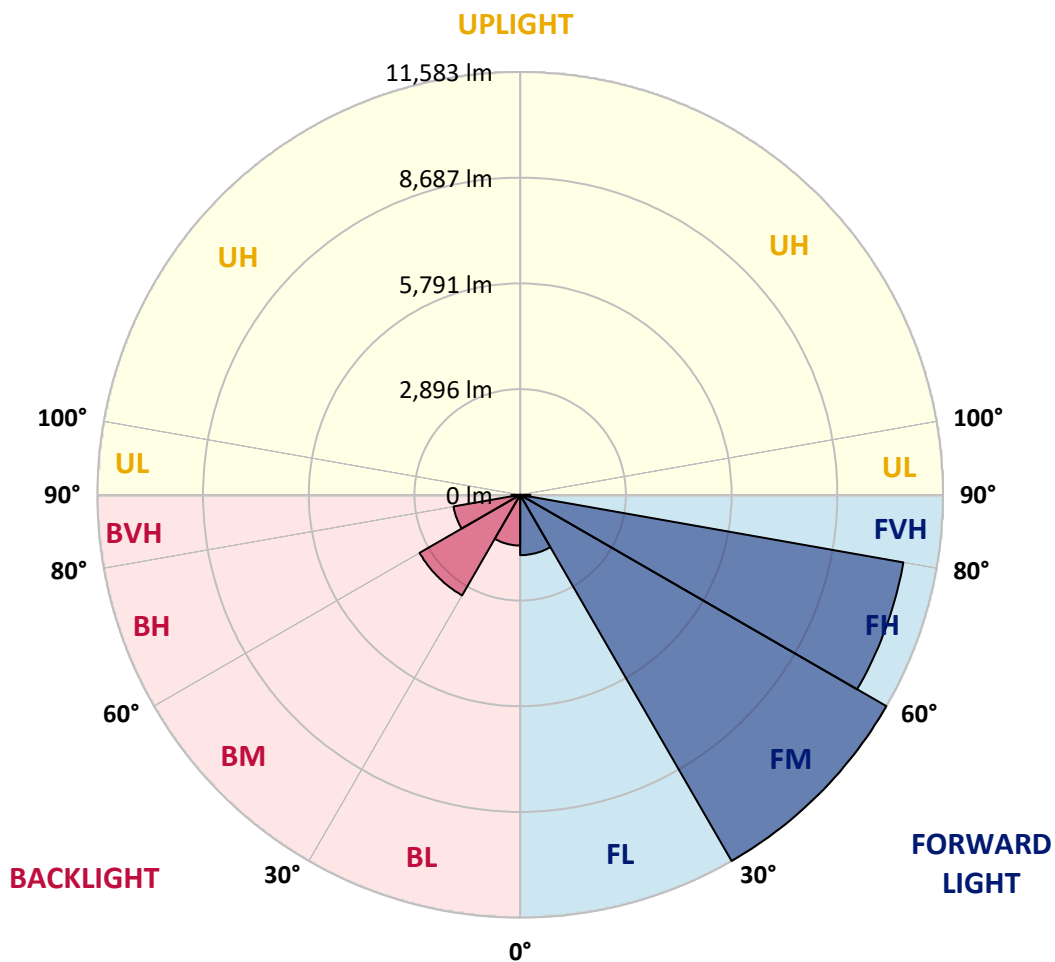
CATALOG NUMBER: GLNA-AF-06-LED-E1-T3-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1652.7	5.4			
FM	(30°-60°)	11582.8	37.6			
FH	(60°-80°)	10658.8	34.6			G4/12000
FVH	(80°-90°)	277.4	0.9			G3/500
BL	(0°-30°)	1390.8	4.5	B3/2500		
BM	(30°-60°)	3180.9	10.3	B3/5000		
BH	(60°-80°)	1853.6	6.0	B3/2500		G3/2500
BVH	(80°-90°)	235.1	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





REPORT NUMBER: P299125

CATALOG NUMBER: GLNA-AF-06-LED-E1-T3-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9
2.5°	3769.2	3770.7	3773.6	3785.6	3796.0	3793.0	3794.5	3788.5	3787.0	3778.1	3787.0
5°	3721.5	3726.0	3727.5	3746.8	3758.7	3761.7	3757.3	3749.8	3740.9	3731.9	3736.4
7.5°	3612.8	3624.7	3626.2	3653.0	3672.4	3697.7	3699.2	3700.7	3696.2	3690.2	3699.2
10°	3544.3	3547.3	3545.8	3565.1	3580.0	3608.3	3624.7	3653.0	3664.9	3667.9	3673.9
12.5°	3539.8	3536.9	3532.4	3532.4	3527.9	3539.8	3569.6	3609.8	3638.1	3647.1	3654.5
15°	3587.5	3586.0	3571.1	3548.8	3520.5	3511.5	3536.9	3581.5	3618.8	3638.1	3645.6
17.5°	3694.7	3685.8	3661.9	3611.3	3550.3	3526.4	3529.4	3566.6	3609.8	3635.1	3642.6
20°	3891.3	3891.3	3840.7	3745.3	3636.6	3580.0	3553.2	3575.6	3617.3	3651.5	3661.9
22.5°	4230.8	4233.8	4148.9	3992.6	3809.4	3688.8	3621.7	3617.3	3666.4	3705.1	3717.0
25°	4711.8	4699.9	4580.8	4357.4	4078.9	3879.4	3763.2	3736.4	3778.1	3821.3	3836.2
27.5°	5271.8	5228.6	5087.1	4817.6	4457.2	4165.3	3986.6	3943.4	3983.6	4032.8	4047.7
30°	5825.8	5781.1	5612.8	5317.9	4917.3	4548.0	4291.9	4221.9	4278.5	4348.5	4357.4
32.5°	6379.7	6379.7	6192.1	5848.1	5411.8	5005.2	4698.4	4615.0	4708.9	4793.7	4813.1
35°	7042.4	7045.4	6863.7	6449.7	5980.6	5550.3	5212.2	5151.1	5292.6	5352.2	5398.4
37.5°	7857.0	7873.4	7639.6	7139.2	6625.5	6172.7	5770.7	5687.3	5828.7	5991.1	6140.0
40°	8737.1	8758.0	8500.4	7883.8	7370.1	6896.5	6461.6	6311.2	6546.5	6856.3	7048.4
42.5°	9577.1	9684.3	9435.6	8801.2	8248.7	7758.7	7317.9	7099.0	7393.9	7861.5	8028.3
45°	10790.8	10868.2	10434.8	9860.0	9340.3	8792.2	8208.5	7977.7	8390.2	8979.9	9014.1
47.5°	11599.4	11541.3	11320.9	10963.5	10634.4	10122.1	9243.5	8990.3	9538.3	10232.3	10040.2
50°	12029.8	12047.6	12017.9	12038.7	12050.6	11729.0	10512.3	10165.3	10819.1	11657.5	11215.2
52.5°	12431.9	12312.7	12411.0	12899.5	13489.2	13370.1	11892.8	11530.9	12192.1	13239.0	12457.2
55°	12422.9	12241.2	12561.4	13423.7	14702.9	14839.9	13443.0	13026.0	13644.1	14935.2	13773.6
57.5°	11983.6	11992.5	12485.5	13614.3	15548.8	16221.9	15242.0	14616.5	15183.9	16653.7	14975.4
60°	11379.0	11460.9	12171.2	13583.0	16226.3	17355.2	17449.0	16330.6	16692.5	18215.9	15970.2
62.5°	10403.6	10489.9	11469.8	13258.4	16123.6	18446.7	19444.5	18275.5	18269.5	19163.1	16262.1
65°	8865.2	8839.9	9868.9	12044.7	15261.3	19253.9	21426.6	19956.8	19457.9	19177.9	15675.3
67.5°	6537.6	6424.4	7307.5	9173.5	12685.0	18349.9	22592.7	20832.4	19863.0	17916.6	13882.3
70°	3392.4	3279.2	3994.0	5356.7	8342.5	14321.7	21301.5	20379.7	18968.0	15018.6	10875.6
72.5°	1450.5	1431.1	1721.5	2350.0	4035.7	8260.6	16702.9	17639.6	16275.5	11189.9	7477.3
75°	975.4	969.5	1078.2	1280.7	1815.3	3352.2	10452.7	12521.2	11907.7	6938.2	4205.5
77.5°	765.4	758.0	822.0	920.3	1176.5	1322.4	4638.9	6722.3	6221.9	3020.1	1840.7
80°	598.7	592.7	632.9	686.5	845.9	834.0	1526.4	2674.6	2070.0	1157.1	895.0
82.5°	472.1	472.1	504.8	506.3	600.1	568.9	796.7	1178.0	1033.5	674.6	548.0
85°	431.9	431.9	466.1	378.3	391.7	358.9	494.4	698.4	655.2	277.0	238.3
87.5°	217.4	211.5	391.7	335.1	213.0	190.6	241.3	338.0	363.4	153.4	119.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P299125

CATALOG NUMBER: GLNA-AF-06-LED-E1-T3-7027

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9
2.5°	3784.1	3782.6	3785.6	3787.0	3799.0	3815.3	3822.8	3833.2	3839.2	3836.2
5°	3739.4	3742.4	3754.3	3763.2	3784.1	3810.9	3825.8	3837.7	3848.1	3843.6
7.5°	3702.2	3709.6	3727.5	3734.9	3746.8	3754.3	3752.8	3757.3	3766.2	3755.8
10°	3681.3	3690.2	3703.6	3693.2	3664.9	3624.7	3587.5	3568.1	3574.1	3566.6
12.5°	3660.5	3672.4	3661.9	3612.8	3533.9	3481.8	3453.5	3456.4	3469.8	3472.8
15°	3648.5	3653.0	3608.3	3516.0	3435.6	3428.1	3443.0	3440.1	3441.5	3441.5
17.5°	3648.5	3636.6	3553.2	3460.9	3426.7	3413.3	3367.1	3309.0	3283.7	3274.8
20°	3667.9	3636.6	3535.4	3474.3	3399.8	3285.2	3163.1	3055.8	3008.2	2994.8
22.5°	3726.0	3672.4	3586.0	3480.3	3268.8	3076.7	2883.1	2755.0	2668.6	2653.8
25°	3843.6	3784.1	3685.8	3401.3	3060.3	2786.3	2565.9	2422.9	2336.6	2324.6
27.5°	4049.1	4010.4	3739.4	3227.1	2783.3	2489.9	2285.9	2175.7	2111.7	2107.2
30°	4358.9	4339.5	3712.6	2969.5	2442.3	2202.5	2104.2	2040.2	1992.6	1991.1
32.5°	4853.3	4696.9	3624.7	2655.2	2131.0	1998.5	1958.3	1919.6	1882.4	1882.4
35°	5489.2	4985.8	3457.9	2318.7	1941.9	1885.3	1834.7	1773.6	1724.5	1721.5
37.5°	6236.8	5164.6	3158.6	2047.7	1852.6	1809.4	1734.9	1644.1	1557.7	1542.8
40°	6991.8	5218.2	2737.2	1880.9	1796.0	1733.4	1642.6	1535.4	1452.0	1447.5
42.5°	7684.3	5115.4	2290.4	1766.2	1739.4	1656.0	1560.7	1465.4	1399.8	1398.4
45°	8265.1	4848.8	1915.1	1657.5	1679.8	1586.0	1501.1	1423.7	1373.0	1362.6
47.5°	8811.6	4472.1	1651.5	1542.8	1620.3	1547.3	1475.8	1402.8	1353.7	1346.2
50°	9446.0	4065.5	1466.9	1431.1	1568.1	1533.9	1496.6	1420.7	1338.8	1329.9
52.5°	10214.4	3714.1	1322.4	1332.8	1527.9	1551.7	1550.3	1471.3	1328.4	1316.5
55°	11072.2	3323.9	1213.7	1252.4	1511.5	1584.5	1563.7	1519.0	1337.3	1319.4
57.5°	11916.6	2868.2	1137.8	1191.4	1487.7	1581.5	1499.6	1435.6	1358.2	1332.8
60°	12549.5	2256.1	1079.7	1137.8	1435.6	1532.4	1429.6	1344.7	1353.7	1334.3
62.5°	12591.2	1743.9	1009.7	1091.6	1356.7	1483.2	1383.5	1304.5	1373.0	1355.2
65°	11851.1	1317.9	942.7	1036.5	1271.8	1452.0	1338.8	1282.2	1413.3	1393.9
67.5°	9977.7	1060.3	886.1	979.9	1186.9	1386.4	1298.6	1261.4	1449.0	1414.7
70°	7203.3	903.9	831.0	911.4	1110.9	1312.0	1262.8	1224.1	1352.2	1298.6
72.5°	4434.8	783.3	768.4	820.6	1052.9	1234.5	1209.2	1154.1	1218.2	1175.0
75°	2214.4	679.1	698.4	731.2	971.0	1146.7	1119.9	1064.8	1073.7	1064.8
77.5°	1060.3	580.8	616.5	641.8	865.2	1046.9	1018.6	962.0	951.6	953.1
80°	671.6	485.5	519.7	537.6	772.9	930.8	902.5	845.9	965.0	895.0
82.5°	420.0	394.6	403.6	436.3	673.1	810.1	772.9	722.3	869.7	688.0
85°	232.3	275.5	287.4	315.7	518.2	677.6	640.4	576.3	516.8	507.8
87.5°	138.5	163.8	168.3	189.1	348.5	489.9	433.4	411.0	341.0	339.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)