

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: P192244

Luminaire Tested: **GLEON-AF-06-LED-E1-T3-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192244
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: GLEON-AF-06-LED-E1-T3-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28770 lumens
Efficiency: N/A
Efficacy: 115.5 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): 249
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

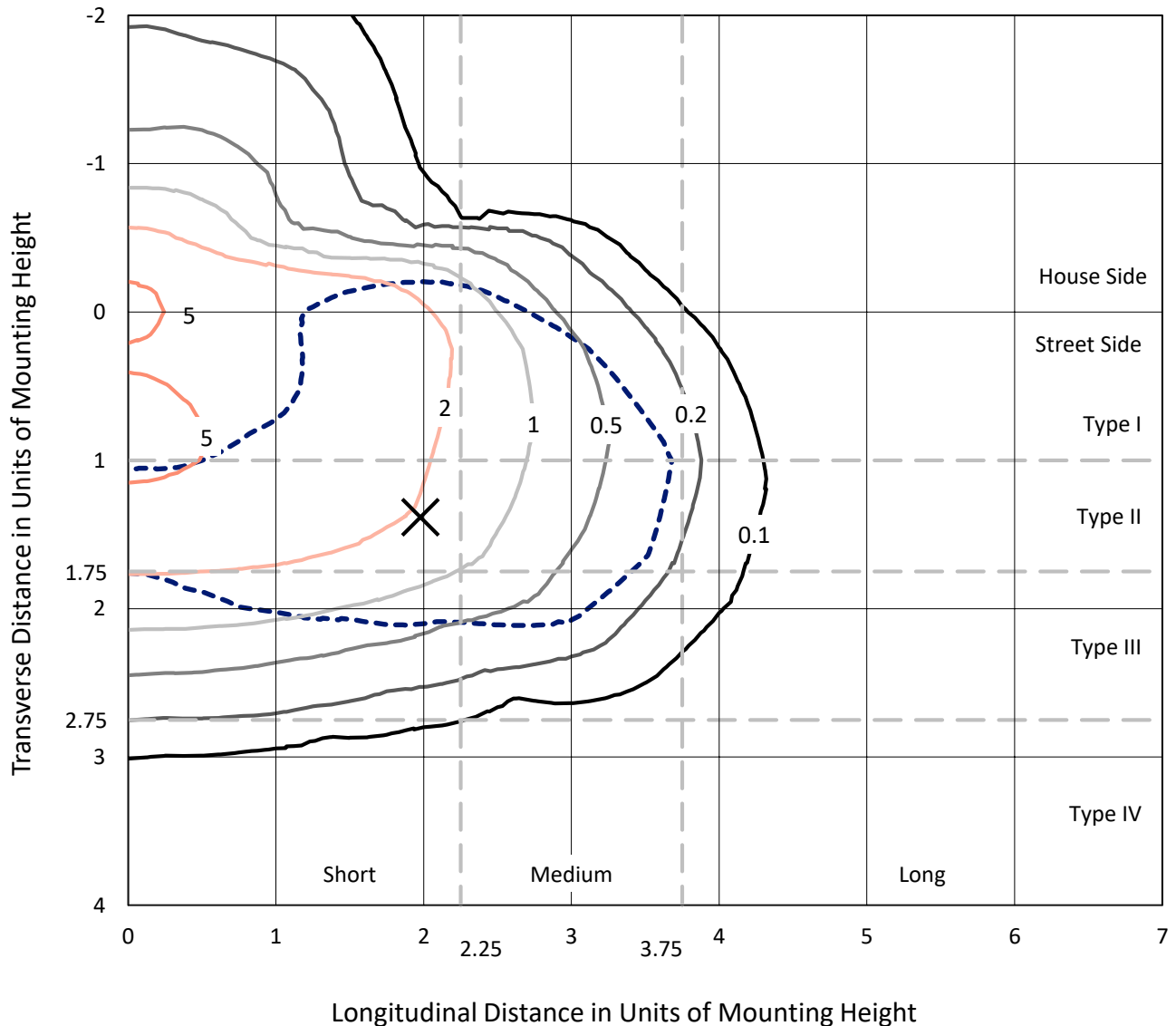


REPORT NUMBER: P192244

CATALOG NUMBER: GLEON-AF-06-LED-E1-T3-7050-800

Iso-Footcandle Lines of Horizontal Illumination

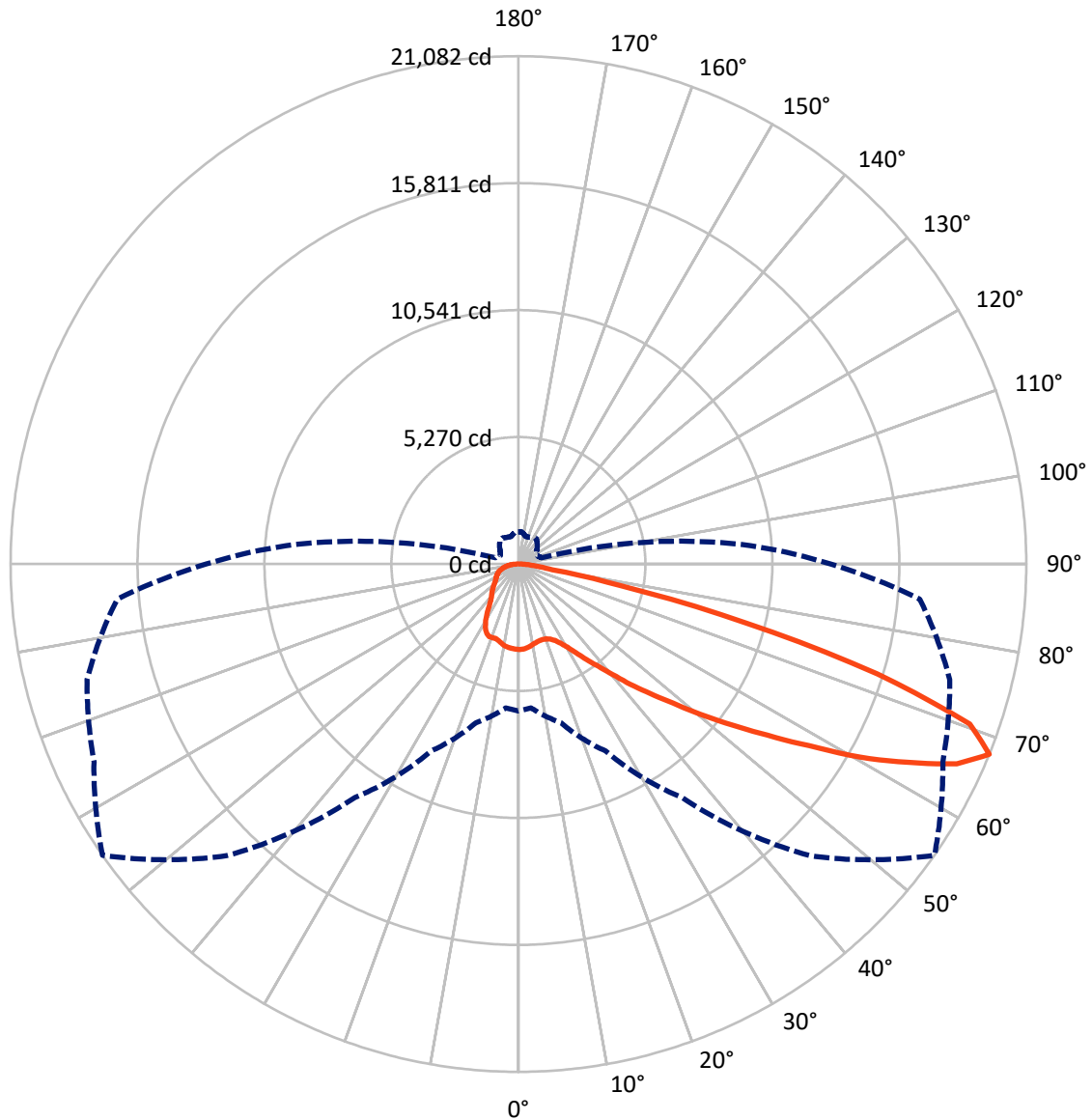
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P192244
CATALOG NUMBER: GLEON-AF-06-LED-E1-T3-7050-800

Luminous Intensity Polar Plot



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

REPORT NUMBER: P192244

CATALOG NUMBER: GLEON-AF-06-LED-E1-T3-7050-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6214.9	0.0	6214.9
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	22555.1	0.0	22555.1
	% Fixture	78.4	0.0	78.4
Total	Lumens	28770.0	0.0	28770.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.1	1.2
10°-20°	937.8	3.3
20°-30°	1571.0	5.5
30°-40°	2583.4	9.0
40°-50°	4348.6	15.1
50°-60°	6844.4	23.8
60°-70°	8168.0	28.4
70°-80°	3507.5	12.2
80°-90°	478.2	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°	28770.0	100.0
0°-180°	28770.0	100.0

Coefficient of Utilization



REPORT NUMBER: P192244

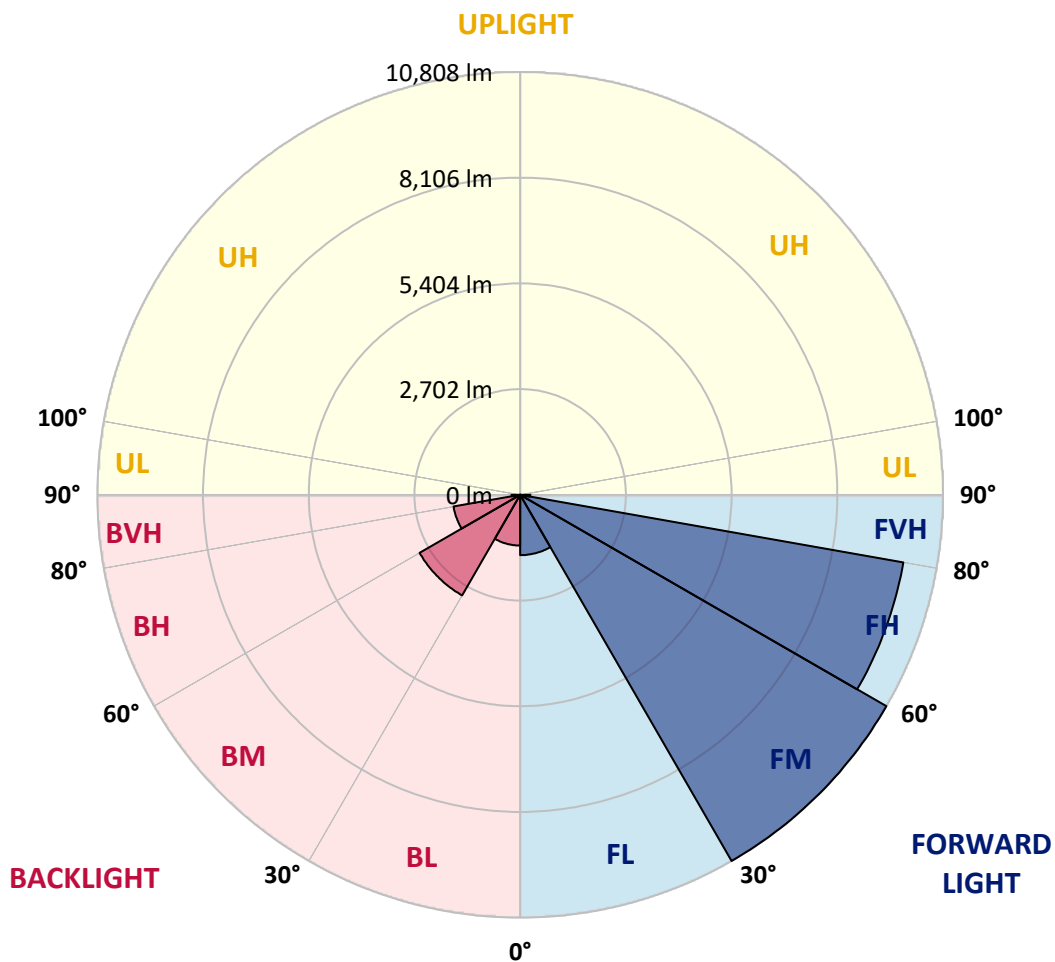
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1542.1	5.4			
FM	(30°-60°)	10808.1	37.6			
FH	(60°-80°)	9945.9	34.6			G4/12000
FVH	(80°-90°)	258.9	0.9			G3/500
BL	(0°-30°)	1297.8	4.5	B3/2500		
BM	(30°-60°)	2968.2	10.3	B3/5000		
BH	(60°-80°)	1729.6	6.0	B3/2500		G3/2500
BVH	(80°-90°)	219.4	0.8			G2/225
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: P192244

CATALOG NUMBER: GLEON-AF-06-LED-E1-T3-7050-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3547.7	3547.7	3547.7	3547.7	3547.7	3547.7	3547.7	3547.7	3547.7	3547.7	3547.7
2.5°	3517.1	3518.5	3521.3	3532.4	3542.1	3539.3	3540.7	3535.1	3533.8	3525.4	3533.8
5°	3472.6	3476.8	3478.2	3496.2	3507.4	3510.1	3506.0	3499.0	3490.7	3482.3	3486.5
7.5°	3371.2	3382.3	3383.7	3408.7	3426.8	3450.4	3451.8	3453.2	3449.0	3443.4	3451.8
10°	3307.3	3310.0	3308.6	3326.7	3340.6	3367.0	3382.3	3408.7	3419.8	3422.6	3428.1
12.5°	3303.1	3300.3	3296.1	3296.1	3292.0	3303.1	3330.9	3368.4	3394.8	3403.1	3410.1
15°	3347.6	3346.2	3332.3	3311.4	3285.0	3276.7	3300.3	3342.0	3376.7	3394.8	3401.7
17.5°	3447.6	3439.3	3417.0	3369.8	3312.8	3290.6	3293.4	3328.1	3368.4	3392.0	3399.0
20°	3631.0	3631.0	3583.8	3494.9	3393.4	3340.6	3315.6	3336.4	3375.3	3407.3	3417.0
22.5°	3947.9	3950.6	3871.4	3725.5	3554.6	3442.0	3379.5	3375.3	3421.2	3457.3	3468.4
25°	4396.7	4385.6	4274.4	4066.0	3806.1	3619.9	3511.5	3486.5	3525.4	3565.7	3579.6
27.5°	4919.2	4878.9	4746.9	4495.4	4159.1	3886.7	3720.0	3679.7	3717.2	3763.0	3776.9
30°	5436.1	5394.4	5237.4	4962.3	4588.5	4243.8	4004.8	3939.5	3992.3	4057.6	4066.0
32.5°	5953.1	5953.1	5778.0	5457.0	5049.8	4670.5	4384.2	4306.4	4393.9	4473.1	4491.2
35°	6571.4	6574.2	6404.7	6018.4	5580.6	5179.0	4863.6	4806.6	4938.6	4994.2	5037.3
37.5°	7331.5	7346.8	7128.7	6661.8	6182.3	5759.9	5384.7	5306.9	5438.9	5590.4	5729.3
40°	8152.8	8172.3	7931.9	7356.6	6877.1	6435.2	6029.5	5889.1	6108.7	6397.7	6577.0
42.5°	8936.5	9036.6	8804.5	8212.6	7697.0	7239.8	6828.5	6624.2	6899.4	7335.7	7491.3
45°	10069.1	10141.3	9736.9	9200.6	8715.6	8204.2	7659.5	7444.1	7829.0	8379.3	8411.3
47.5°	10823.6	10769.4	10563.8	10230.3	9923.2	9445.1	8625.3	8389.0	8900.4	9548.0	9368.7
50°	11225.2	11241.9	11214.1	11233.5	11244.7	10944.5	9809.2	9485.4	10095.5	10877.8	10465.1
52.5°	11600.4	11489.2	11580.9	12036.7	12587.0	12475.9	11097.4	10759.7	11376.7	12353.6	11624.0
55°	11592.1	11422.5	11721.3	12525.9	13719.5	13847.4	12543.9	12154.9	12731.5	13936.3	12852.4
57.5°	11182.1	11190.5	11650.4	12703.7	14508.8	15136.9	14222.6	13638.9	14168.4	15539.9	13973.8
60°	10618.0	10694.4	11357.2	12674.6	15141.1	16194.4	16282.0	15238.4	15576.1	16997.6	14902.1
62.5°	9707.8	9788.4	10702.7	12371.6	15045.2	17213.0	18144.0	17053.2	17047.6	17881.4	15174.5
65°	8272.3	8248.7	9208.9	11239.1	14240.6	17966.2	19993.6	18622.1	18156.5	17895.3	14627.0
67.5°	6100.4	5994.7	6818.8	8560.0	11836.6	17122.7	21081.7	19439.1	18534.5	16718.3	12953.9
70°	3165.5	3059.9	3726.9	4998.4	7784.6	13363.8	19876.9	19016.7	17699.4	14014.1	10148.3
72.5°	1353.5	1335.4	1606.4	2192.8	3765.8	7708.1	15585.8	16459.8	15187.0	10441.5	6977.2
75°	910.2	904.6	1006.1	1195.1	1693.9	3128.0	9753.6	11683.8	11111.3	6474.2	3924.2
77.5°	714.3	707.3	767.1	858.8	1097.8	1234.0	4328.6	6272.7	5805.8	2818.1	1717.5
80°	558.6	553.1	590.6	640.6	789.3	778.2	1424.3	2495.7	1931.5	1079.7	835.2
82.5°	440.5	440.5	471.1	472.5	560.0	530.8	743.4	1099.2	964.4	629.5	511.4
85°	403.0	403.0	434.9	353.0	365.5	334.9	461.3	651.7	611.4	258.5	222.3
87.5°	202.9	197.3	365.5	312.7	198.7	177.9	225.1	315.4	339.1	143.1	111.2
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: P192244

CATALOG NUMBER: GLEON-AF-06-LED-E1-T3-7050-800

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3547.7	3547.7	3547.7	3547.7	3547.7	3547.7	3547.7	3547.7	3547.7	3547.7
2.5°	3531.0	3529.6	3532.4	3533.8	3544.9	3560.2	3567.1	3576.8	3582.4	3579.6
5°	3489.3	3492.1	3503.2	3511.5	3531.0	3556.0	3569.9	3581.0	3590.7	3586.6
7.5°	3454.6	3461.5	3478.2	3485.1	3496.2	3503.2	3501.8	3506.0	3514.3	3504.6
10°	3435.1	3443.4	3455.9	3446.2	3419.8	3382.3	3347.6	3329.5	3335.0	3328.1
12.5°	3415.6	3426.8	3417.0	3371.2	3297.5	3248.9	3222.5	3225.3	3237.8	3240.6
15°	3404.5	3408.7	3367.0	3280.9	3205.8	3198.9	3212.8	3210.0	3211.4	3211.4
17.5°	3404.5	3393.4	3315.6	3229.4	3197.5	3185.0	3141.9	3087.7	3064.1	3055.7
20°	3422.6	3393.4	3298.9	3241.9	3172.5	3065.5	2951.5	2851.5	2807.0	2794.5
22.5°	3476.8	3426.8	3346.2	3247.5	3050.2	2870.9	2690.3	2570.8	2490.2	2476.3
25°	3586.6	3531.0	3439.3	3173.9	2855.6	2599.9	2394.3	2260.9	2180.3	2169.2
27.5°	3778.3	3742.2	3489.3	3011.3	2597.2	2323.4	2133.0	2030.2	1970.5	1966.3
30°	4067.4	4049.3	3464.3	2770.9	2278.9	2055.2	1963.5	1903.8	1859.3	1857.9
32.5°	4528.7	4382.8	3382.3	2477.7	1988.5	1864.8	1827.3	1791.2	1756.5	1756.5
35°	5122.1	4652.4	3226.7	2163.6	1812.0	1759.2	1712.0	1655.0	1609.2	1606.4
37.5°	5819.7	4819.1	2947.3	1910.7	1728.7	1688.4	1618.9	1534.1	1453.5	1439.6
40°	6524.2	4869.2	2554.1	1755.1	1675.9	1617.5	1532.7	1432.7	1354.9	1350.7
42.5°	7170.3	4773.3	2137.2	1648.1	1623.1	1545.2	1456.3	1367.4	1306.2	1304.8
45°	7712.3	4524.5	1787.0	1546.6	1567.5	1479.9	1400.7	1328.5	1281.2	1271.5
47.5°	8222.3	4173.0	1541.1	1439.6	1511.9	1443.8	1377.1	1309.0	1263.1	1256.2
50°	8814.2	3793.6	1368.8	1335.4	1463.3	1431.3	1396.6	1325.7	1249.3	1240.9
52.5°	9531.3	3465.7	1234.0	1243.7	1425.7	1448.0	1446.6	1372.9	1239.5	1228.4
55°	10331.7	3101.6	1132.5	1168.7	1410.4	1478.5	1459.1	1417.4	1247.9	1231.2
57.5°	11119.6	2676.4	1061.7	1111.7	1388.2	1475.8	1399.3	1339.6	1267.3	1243.7
60°	11710.2	2105.2	1007.5	1061.7	1339.6	1429.9	1334.0	1254.8	1263.1	1245.1
62.5°	11749.1	1627.2	942.2	1018.6	1265.9	1384.0	1290.9	1217.3	1281.2	1264.5
65°	11058.5	1229.8	879.6	967.2	1186.7	1354.9	1249.3	1196.4	1318.7	1300.7
67.5°	9310.3	989.4	826.8	914.4	1107.5	1293.7	1211.7	1177.0	1352.1	1320.1
70°	6721.5	843.5	775.4	850.4	1036.6	1224.2	1178.4	1142.3	1261.8	1211.7
72.5°	4138.2	730.9	717.0	765.7	982.4	1152.0	1128.4	1076.9	1136.7	1096.4
75°	2066.3	633.7	651.7	682.3	906.0	1070.0	1045.0	993.6	1001.9	993.6
77.5°	989.4	541.9	575.3	598.9	807.4	976.9	950.5	897.7	888.0	889.3
80°	626.7	453.0	485.0	501.6	721.2	868.5	842.1	789.3	900.5	835.2
82.5°	391.9	368.2	376.6	407.2	628.1	755.9	721.2	674.0	811.5	642.0
85°	216.8	257.1	268.2	294.6	483.6	632.3	597.5	537.8	482.2	473.9
87.5°	129.2	152.9	157.0	176.5	325.2	457.2	404.4	383.5	318.2	316.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)