

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: P191436

Luminaire Tested: **GLEON-AF-08-LED-E1-T3-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191436
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-08-LED-E1-T3-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32159.5 lumens
Efficiency: N/A
Efficacy: 125.1 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

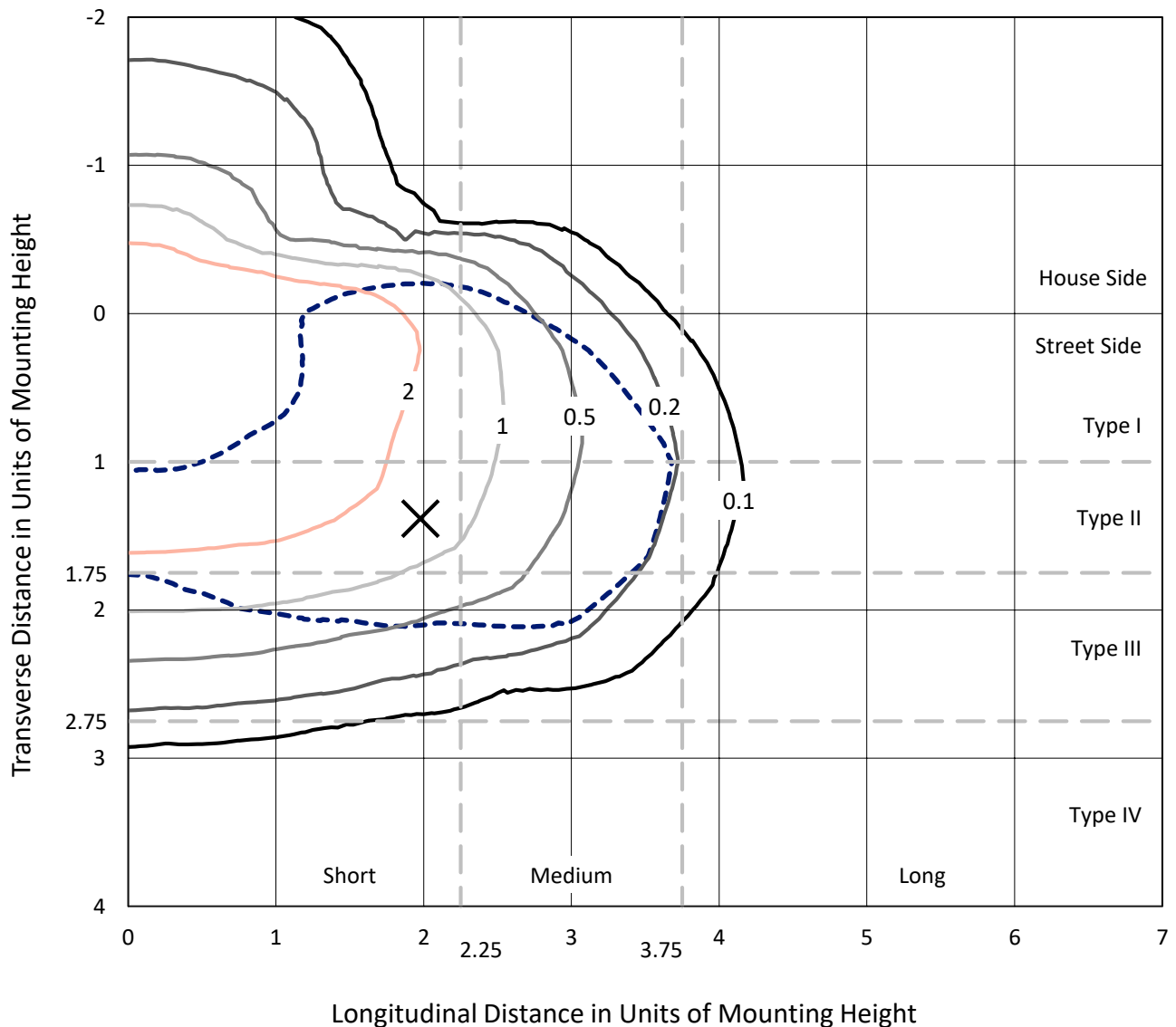
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

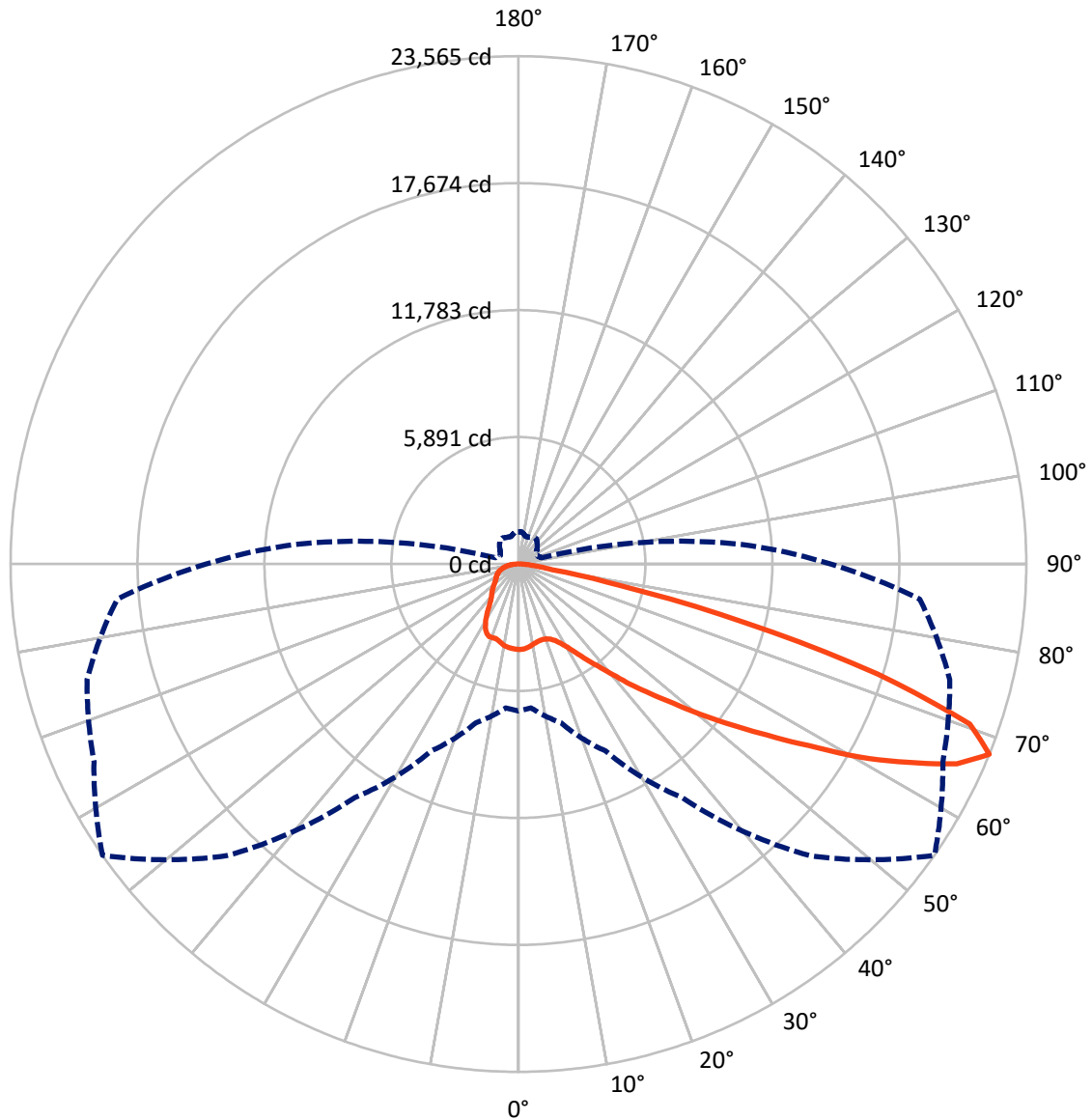
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.5 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	6947.1	0.0	6947.1
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	25212.4	0.0	25212.4
	% Fixture	78.4	0.0	78.4
Total	Lumens	32159.5	0.0	32159.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.1	1.2
10°-20°	1048.3	3.3
20°-30°	1756.1	5.5
30°-40°	2887.7	9.0
40°-50°	4860.9	15.1
50°-60°	7650.7	23.8
60°-70°	9130.3	28.4
70°-80°	3920.7	12.2
80°-90°	534.6	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°	32159.5	100.0
0°-180°	32159.5	100.0



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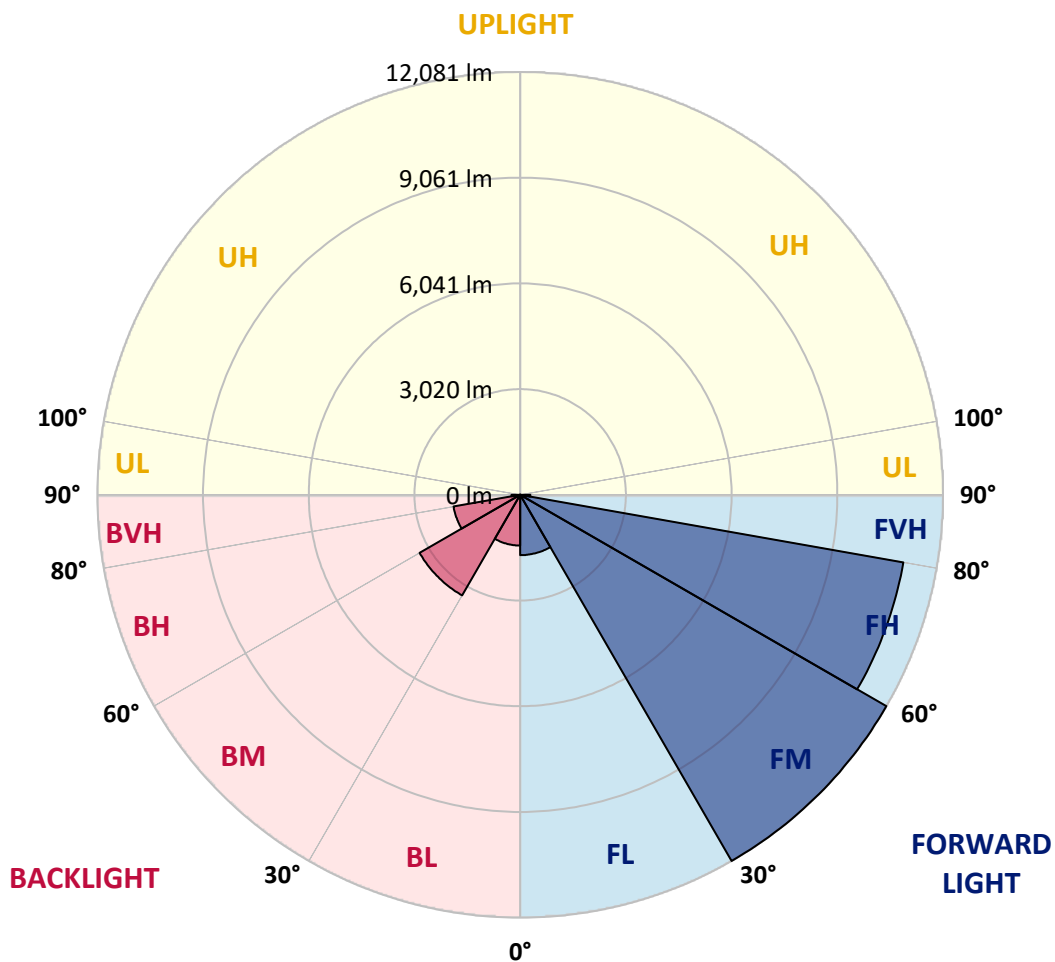
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1723.8	5.4			
FM	(30°-60°)	12081.5	37.6			
FH	(60°-80°)	11117.7	34.6			G4/12000
FVH	(80°-90°)	289.4	0.9			G3/500
BL	(0°-30°)	1450.7	4.5	B3/2500		
BM	(30°-60°)	3317.9	10.3	B3/5000		
BH	(60°-80°)	1933.4	6.0	B3/2500		G3/2500
BVH	(80°-90°)	245.2	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°	3965.6	3965.6	3965.6	3965.6	3965.6	3965.6	3965.6	3965.6	3965.6	3965.6	3965.6
2.5°	3931.4	3933.0	3936.1	3948.5	3959.4	3956.3	3957.9	3951.7	3950.1	3940.8	3950.1
5°	3881.8	3886.4	3887.9	3908.2	3920.6	3923.7	3919.0	3911.3	3901.9	3892.6	3897.2
7.5°	3768.3	3780.8	3782.4	3810.3	3830.4	3856.9	3858.5	3860.0	3855.3	3849.2	3858.5
10°	3696.9	3700.0	3698.5	3718.6	3734.2	3763.6	3780.8	3810.3	3822.7	3825.8	3832.1
12.5°	3692.2	3689.2	3684.5	3684.5	3679.9	3692.2	3723.3	3765.3	3794.7	3804.0	3811.8
15°	3742.0	3740.4	3724.9	3701.5	3672.1	3662.7	3689.2	3735.7	3774.6	3794.7	3802.5
17.5°	3853.8	3844.5	3819.6	3766.8	3703.1	3678.2	3681.4	3720.2	3765.3	3791.7	3799.4
20°	4058.9	4058.9	4006.0	3906.5	3793.2	3734.2	3706.3	3729.5	3773.1	3808.8	3819.6
22.5°	4413.0	4416.1	4327.6	4164.4	3973.3	3847.5	3777.7	3773.1	3824.3	3864.6	3877.1
25°	4914.7	4902.3	4778.0	4545.0	4254.6	4046.4	3925.3	3897.2	3940.8	3985.8	4001.4
27.5°	5498.8	5453.7	5306.1	5024.9	4649.1	4344.7	4158.2	4113.2	4155.1	4206.4	4221.9
30°	6076.5	6030.0	5854.4	5546.8	5129.1	4743.8	4476.6	4403.7	4462.7	4535.7	4545.0
32.5°	6654.4	6654.4	6458.7	6099.9	5644.7	5220.7	4900.8	4813.7	4911.6	5000.1	5020.3
35°	7345.6	7348.8	7159.2	6727.4	6238.2	5789.2	5436.6	5372.9	5520.5	5582.7	5630.7
37.5°	8195.3	8212.4	7968.5	7446.6	6910.7	6438.5	6019.1	5932.1	6079.7	6249.0	6404.3
40°	9113.4	9135.1	8866.3	8223.3	7687.4	7193.4	6739.8	6583.0	6828.4	7151.4	7351.8
42.5°	9989.4	10101.2	9841.8	9180.1	8603.8	8092.8	7633.1	7404.6	7712.2	8200.0	8374.0
45°	11255.3	11336.1	10884.1	10284.5	9742.4	9170.8	8561.9	8321.1	8751.3	9366.5	9402.2
47.5°	12098.7	12038.2	11808.3	11435.6	11092.3	10557.9	9641.4	9377.4	9949.0	10672.9	10472.5
50°	12547.7	12566.3	12535.2	12557.0	12569.4	12234.0	10964.9	10603.0	11284.9	12159.4	11698.1
52.5°	12967.1	12842.8	12945.3	13454.9	14070.0	13945.7	12404.8	12027.3	12717.0	13809.0	12993.5
55°	12957.8	12768.3	13102.3	14001.6	15335.9	15478.8	14021.8	13586.8	14231.5	15578.2	14366.6
57.5°	12499.5	12508.8	13023.0	14200.4	16218.2	16920.3	15898.2	15245.9	15837.6	17370.7	15620.2
60°	11868.9	11954.3	12695.2	14167.8	16924.9	18102.3	18200.2	17033.7	17411.1	19000.2	16657.8
62.5°	10851.5	10941.6	11963.6	13829.2	16817.8	19241.0	20281.6	19062.3	19056.1	19988.0	16962.3
65°	9246.9	9220.5	10293.9	12563.3	15918.4	20082.9	22349.1	20816.0	20295.7	20003.6	16350.2
67.5°	6819.1	6701.0	7622.1	9568.5	13231.2	19140.0	23565.4	21729.3	20718.1	18688.0	14480.1
70°	3538.5	3420.4	4166.0	5587.3	8701.7	14938.3	22218.7	21257.1	19784.6	15665.2	11343.9
72.5°	1512.9	1492.7	1795.6	2451.1	4209.4	8616.2	17422.0	18399.1	16976.2	11671.7	7799.2
75°	1017.4	1011.2	1124.6	1335.9	1893.5	3496.5	10902.7	13060.3	12420.4	7236.9	4386.6
77.5°	798.4	790.6	857.4	959.9	1227.1	1379.3	4838.6	7011.7	6489.8	3150.2	1919.9
80°	624.4	618.3	660.1	716.1	882.3	869.8	1592.1	2789.8	2159.1	1206.9	933.5
82.5°	492.4	492.4	526.6	528.1	625.9	593.4	831.0	1228.7	1078.0	703.7	571.6
85°	450.5	450.5	486.2	394.6	408.6	374.4	515.7	728.5	683.4	288.9	248.6
87.5°	226.8	220.5	408.6	349.5	222.1	198.9	251.6	352.6	379.0	160.0	124.3
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°	3965.6	3965.6	3965.6	3965.6	3965.6	3965.6	3965.6	3965.6	3965.6	3965.6
2.5°	3947.0	3945.4	3948.5	3950.1	3962.5	3979.6	3987.4	3998.2	4004.4	4001.4
5°	3900.4	3903.5	3916.0	3925.3	3947.0	3975.0	3990.4	4002.9	4013.8	4009.1
7.5°	3861.5	3869.3	3887.9	3895.7	3908.2	3916.0	3914.3	3919.0	3928.3	3917.5
10°	3839.9	3849.2	3863.1	3852.2	3822.7	3780.8	3742.0	3721.7	3727.9	3720.2
12.5°	3818.1	3830.4	3819.6	3768.3	3686.0	3631.7	3602.1	3605.3	3619.2	3622.4
15°	3805.6	3810.3	3763.6	3667.4	3583.5	3575.7	3591.3	3588.2	3589.7	3589.7
17.5°	3805.6	3793.2	3706.3	3609.9	3574.2	3560.2	3512.1	3451.4	3425.0	3415.7
20°	3825.8	3793.2	3687.5	3623.9	3546.3	3426.6	3299.2	3187.4	3137.7	3123.7
22.5°	3886.4	3830.4	3740.4	3630.1	3409.5	3209.2	3007.3	2873.7	2783.6	2768.0
25°	4009.1	3947.0	3844.5	3547.8	3192.1	2906.3	2676.3	2527.2	2437.2	2424.7
27.5°	4223.5	4183.1	3900.4	3366.0	2903.1	2597.2	2384.3	2269.4	2202.6	2197.9
30°	4546.6	4526.4	3872.4	3097.3	2547.5	2297.3	2194.8	2128.0	2078.3	2076.8
32.5°	5062.3	4899.1	3780.8	2769.5	2222.8	2084.6	2042.6	2002.2	1963.3	1963.3
35°	5725.6	5200.5	3606.8	2418.6	2025.5	1966.5	1913.7	1850.0	1798.8	1795.6
37.5°	6505.3	5386.9	3294.6	2135.8	1932.4	1887.2	1809.6	1714.9	1624.8	1609.2
40°	7292.8	5442.8	2855.0	1961.8	1873.3	1808.1	1713.3	1601.4	1514.5	1509.9
42.5°	8015.1	5335.6	2389.0	1842.2	1814.3	1727.3	1627.9	1528.5	1460.2	1458.5
45°	8620.9	5057.6	1997.5	1728.9	1752.1	1654.3	1565.7	1485.0	1432.1	1421.3
47.5°	9191.0	4664.7	1722.6	1609.2	1690.0	1613.9	1539.3	1463.2	1412.0	1404.2
50°	9852.7	4240.5	1530.0	1492.7	1635.6	1599.9	1561.1	1481.8	1396.4	1387.1
52.5°	10654.2	3874.0	1379.3	1390.2	1593.7	1618.5	1617.0	1534.6	1385.6	1373.1
55°	11548.9	3467.0	1266.0	1306.3	1576.6	1652.7	1631.0	1584.3	1394.9	1376.3
57.5°	12429.7	2991.7	1186.7	1242.7	1551.7	1649.6	1564.2	1497.4	1416.6	1390.2
60°	13089.8	2353.3	1126.2	1186.7	1497.4	1598.4	1491.2	1402.7	1412.0	1391.7
62.5°	13133.3	1818.9	1053.1	1138.5	1415.0	1547.1	1443.1	1360.7	1432.1	1413.5
65°	12361.3	1374.6	983.3	1081.2	1326.6	1514.5	1396.4	1337.4	1474.1	1453.9
67.5°	10407.2	1105.9	924.2	1022.1	1238.0	1446.1	1354.5	1315.6	1511.4	1475.6
70°	7513.4	942.9	866.7	950.6	1158.8	1368.5	1317.3	1276.8	1410.4	1354.5
72.5°	4625.8	817.0	801.5	855.9	1098.2	1287.7	1261.3	1203.8	1270.6	1225.6
75°	2309.8	708.3	728.5	762.7	1012.7	1196.0	1168.1	1110.6	1119.9	1110.6
77.5°	1105.9	605.8	643.0	669.5	902.4	1092.0	1062.4	1003.4	992.6	994.1
80°	700.5	506.4	542.1	560.8	806.2	970.8	941.3	882.3	1006.6	933.5
82.5°	438.0	411.6	420.9	455.1	702.1	845.0	806.2	753.4	907.2	717.6
85°	242.3	287.3	299.8	329.3	540.5	706.8	667.9	601.1	539.0	529.7
87.5°	144.4	170.8	175.5	197.2	363.5	511.1	452.0	428.7	355.7	354.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)