

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: P192263

Luminaire Tested: **GLEON-AF-05-LED-E1-T3-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192263
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-05-LED-E1-T3-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32642 lumens
Efficiency: N/A
Efficacy: 102.0 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): 320
Input Voltage (V): NR
Input Current (A_{in}): 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

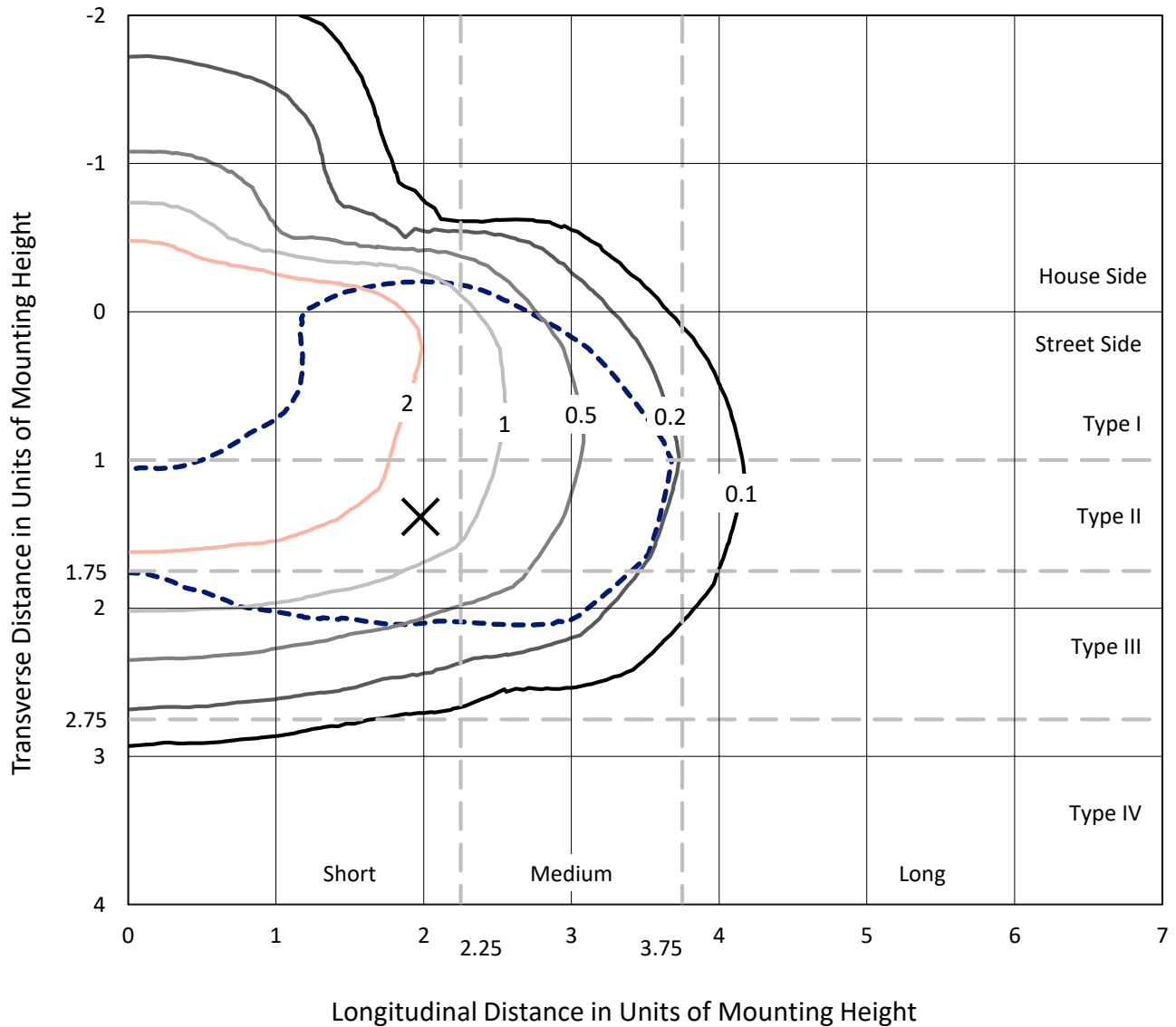


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Iso-Footcandle Lines of Horizontal Illumination

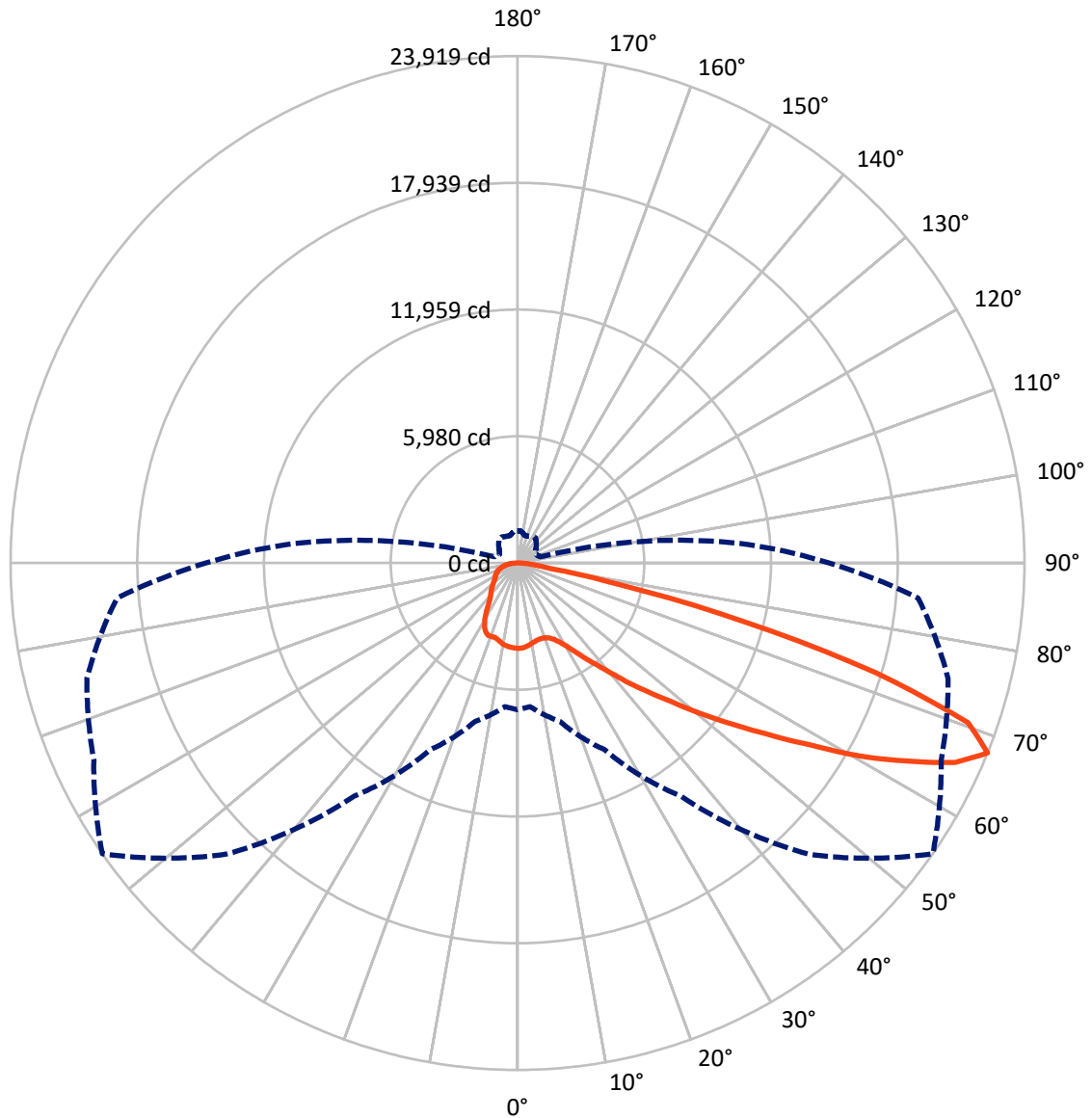
× Max cd
 - - - 1/2 Max cd



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	7051.4	0.0	7051.4
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	25590.6	0.0	25590.6
	% Fixture	78.4	0.0	78.4
Total	Lumens	32642.0	0.0	32642.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.7	1.2
10°-20°	1064.0	3.3
20°-30°	1782.4	5.5
30°-40°	2931.0	9.0
40°-50°	4933.9	15.1
50°-60°	7765.5	23.8
60°-70°	9267.3	28.4
70°-80°	3979.6	12.2
80°-90°	542.6	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°	32642.0	100.0
0°-180°	32642.0	100.0



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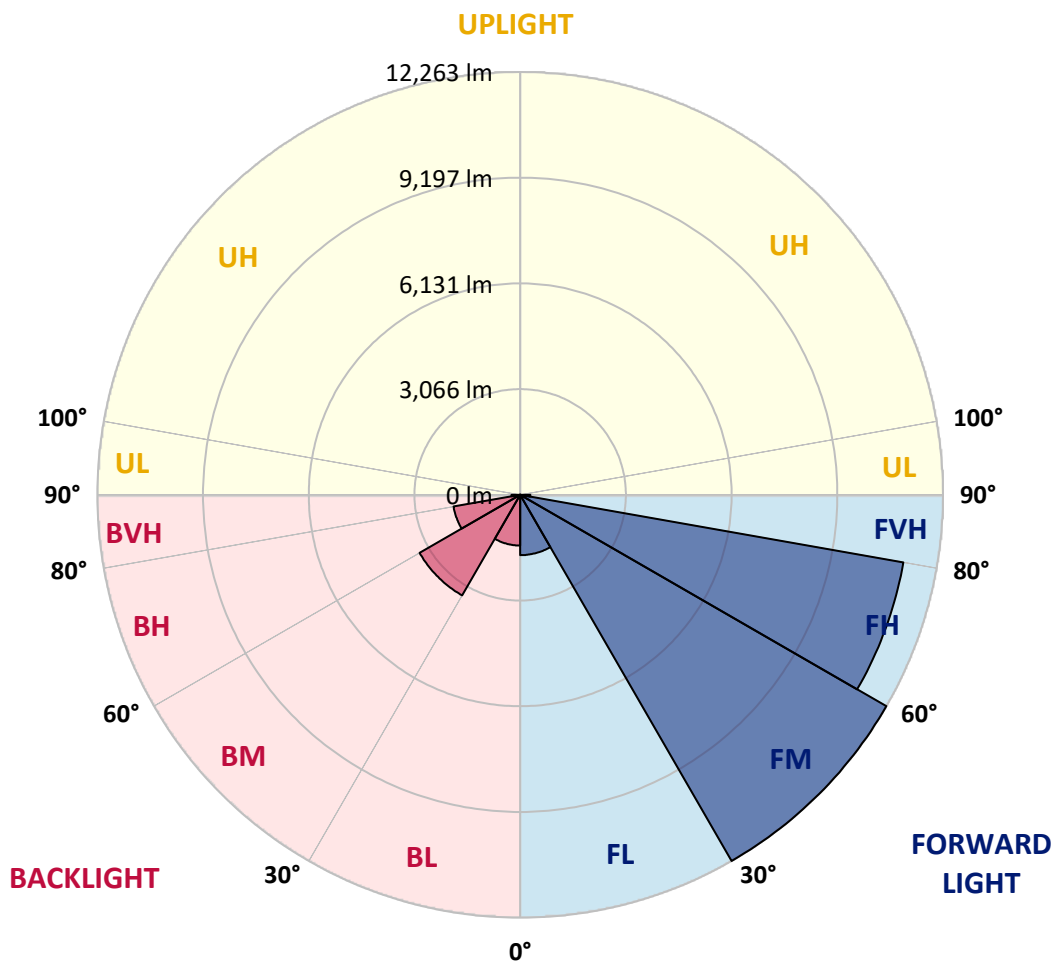
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1749.7	5.4			
FM (30°-60°)	12262.7	37.6			
FH (60°-80°)	11284.5	34.6			G4/12000
FVH (80°-90°)	293.7	0.9			G3/500
BL (0°-30°)	1472.5	4.5	B3/2500		
BM (30°-60°)	3367.7	10.3	B3/5000		
BH (60°-80°)	1962.4	6.0	B3/2500		G3/2500
BVH (80°-90°)	248.9	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°	4025.1	4025.1	4025.1	4025.1	4025.1	4025.1	4025.1	4025.1	4025.1	4025.1	4025.1
2.5°	3990.4	3992.0	3995.2	4007.8	4018.8	4015.7	4017.2	4010.9	4009.3	3999.9	4009.3
5°	3940.0	3944.7	3946.3	3966.8	3979.4	3982.5	3977.8	3969.9	3960.5	3951.0	3955.7
7.5°	3824.9	3837.5	3839.1	3867.5	3887.9	3914.8	3916.3	3917.9	3913.2	3906.9	3916.3
10°	3752.4	3755.5	3753.9	3774.4	3790.2	3820.2	3837.5	3867.5	3880.1	3883.2	3889.5
12.5°	3747.6	3744.5	3739.7	3739.7	3735.0	3747.6	3779.2	3821.7	3851.7	3861.1	3869.0
15°	3798.1	3796.5	3780.7	3757.1	3727.1	3717.7	3744.5	3791.8	3831.2	3851.7	3859.6
17.5°	3911.6	3902.1	3876.9	3823.3	3758.7	3733.4	3736.6	3776.0	3821.7	3848.5	3856.4
20°	4119.7	4119.7	4066.1	3965.2	3850.1	3790.2	3761.8	3785.5	3829.6	3865.9	3876.9
22.5°	4479.2	4482.3	4392.5	4226.9	4033.0	3905.3	3834.3	3829.6	3881.6	3922.6	3935.2
25°	4988.4	4975.8	4849.7	4613.2	4318.4	4107.1	3984.1	3955.7	3999.9	4045.6	4061.4
27.5°	5581.2	5535.5	5385.7	5100.4	4718.8	4409.8	4220.6	4174.9	4217.5	4269.5	4285.3
30°	6167.7	6120.4	5942.3	5630.1	5206.0	4815.0	4543.8	4469.7	4529.6	4603.7	4613.2
32.5°	6754.2	6754.2	6555.6	6191.4	5729.4	5299.0	4974.2	4886.0	4985.3	5075.1	5095.6
35°	7455.8	7459.0	7266.6	6828.3	6331.7	5876.1	5518.2	5453.5	5603.3	5666.4	5715.3
37.5°	8318.3	8335.6	8088.1	7558.3	7014.4	6535.1	6109.4	6021.1	6170.9	6342.7	6500.4
40°	9250.0	9272.1	8999.4	8346.6	7802.7	7301.3	6841.0	6681.7	6930.8	7258.8	7462.2
42.5°	10139.3	10252.8	9989.5	9317.8	8732.9	8214.2	7747.5	7515.8	7827.9	8323.0	8499.6
45°	11424.2	11506.2	11047.4	10438.8	9888.6	9308.4	8690.3	8446.0	8882.7	9507.0	9543.3
47.5°	12280.3	12218.8	11985.5	11607.1	11258.7	10716.3	9786.1	9518.1	10098.3	10833.0	10629.6
50°	12735.9	12754.9	12723.3	12745.4	12758.0	12417.5	11129.4	10762.0	11454.2	12341.8	11873.5
52.5°	13161.6	13035.5	13139.6	13656.7	14281.0	14154.9	12590.9	12207.8	12907.8	14016.2	13188.4
55°	13152.2	12959.8	13298.8	14211.7	15566.0	15711.0	14232.2	13790.7	14445.0	15811.9	14582.2
57.5°	12687.1	12696.5	13218.4	14413.5	16461.5	17174.1	16136.7	15474.5	16075.2	17631.4	15854.5
60°	12047.0	12133.7	12885.7	14380.4	17178.9	18373.9	18473.3	17289.2	17672.4	19285.2	16907.7
62.5°	11014.3	11105.7	12143.1	14036.7	17070.1	19529.6	20585.9	19348.3	19342.0	20288.0	17216.7
65°	9385.6	9358.8	10448.3	12751.7	16157.2	20384.1	22684.4	21128.3	20600.1	20303.7	16595.5
67.5°	6921.4	6801.5	7736.5	9712.0	13429.7	19427.1	23918.9	22055.4	21029.0	18968.3	14697.3
70°	3591.5	3471.7	4228.5	5671.1	8832.2	15162.4	22552.0	21576.1	20081.4	15900.2	11514.1
72.5°	1535.6	1515.1	1822.6	2487.9	4272.6	8745.5	17683.4	18675.1	17230.9	11846.7	7916.2
75°	1032.7	1026.4	1141.5	1355.9	1921.9	3549.0	11066.3	13256.2	12606.7	7345.5	4452.4
77.5°	810.4	802.5	870.3	974.4	1245.5	1400.0	4911.2	7116.9	6587.1	3197.4	1948.7
80°	633.8	627.5	670.1	726.8	895.5	882.9	1616.0	2831.6	2191.5	1225.0	947.5
82.5°	499.8	499.8	534.5	536.1	635.4	602.3	843.5	1247.1	1094.2	714.2	580.2
85°	457.2	457.2	493.5	400.5	414.7	380.0	523.4	739.4	693.7	293.3	252.3
87.5°	230.2	223.9	414.7	354.7	225.5	201.8	255.4	357.9	384.7	162.4	126.1
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°	4025.1	4025.1	4025.1	4025.1	4025.1	4025.1	4025.1	4025.1	4025.1	4025.1
2.5°	4006.2	4004.6	4007.8	4009.3	4022.0	4039.3	4047.2	4058.2	4064.5	4061.4
5°	3958.9	3962.1	3974.7	3984.1	4006.2	4034.6	4050.3	4063.0	4074.0	4069.3
7.5°	3919.5	3927.4	3946.3	3954.2	3966.8	3974.7	3973.1	3977.8	3987.3	3976.2
10°	3897.4	3906.9	3921.1	3910.0	3880.1	3837.5	3798.1	3777.6	3783.9	3776.0
12.5°	3875.3	3887.9	3876.9	3824.9	3741.3	3686.1	3656.2	3659.3	3673.5	3676.7
15°	3862.7	3867.5	3820.2	3722.4	3637.3	3629.4	3645.1	3642.0	3643.6	3643.6
17.5°	3862.7	3850.1	3761.8	3664.1	3627.8	3613.6	3564.7	3503.3	3476.5	3467.0
20°	3883.2	3850.1	3742.9	3678.3	3599.4	3478.0	3348.7	3235.2	3184.8	3170.6
22.5°	3944.7	3887.9	3796.5	3684.6	3460.7	3257.3	3052.3	2916.8	2825.3	2809.5
25°	4069.3	4006.2	3902.1	3601.0	3240.0	2949.9	2716.5	2565.2	2473.7	2461.1
27.5°	4286.8	4245.8	3958.9	3416.5	2946.7	2636.1	2420.1	2303.4	2235.6	2230.9
30°	4614.8	4594.3	3930.5	3143.8	2585.7	2331.8	2227.8	2160.0	2109.5	2107.9
32.5°	5138.2	4972.7	3837.5	2811.1	2256.1	2115.8	2073.3	2032.3	1992.8	1992.8
35°	5811.4	5278.5	3660.9	2454.8	2055.9	1996.0	1942.4	1877.8	1825.7	1822.6
37.5°	6602.9	5467.7	3344.0	2167.9	1961.3	1915.6	1836.8	1740.6	1649.1	1633.4
40°	7402.2	5524.5	2897.8	1991.3	1901.4	1835.2	1739.0	1625.5	1537.2	1532.5
42.5°	8135.4	5415.7	2424.8	1869.9	1841.5	1753.2	1652.3	1551.4	1482.0	1480.4
45°	8750.3	5133.5	2027.5	1754.8	1778.4	1679.1	1589.2	1507.3	1453.6	1442.6
47.5°	9328.9	4734.6	1748.5	1633.4	1715.4	1638.1	1562.4	1485.2	1433.1	1425.3
50°	10000.5	4304.2	1553.0	1515.1	1660.2	1623.9	1584.5	1504.1	1417.4	1407.9
52.5°	10814.0	3932.1	1400.0	1411.1	1617.6	1642.8	1641.3	1557.7	1406.3	1393.7
55°	11722.2	3519.0	1284.9	1325.9	1600.3	1677.5	1655.5	1608.2	1415.8	1396.9
57.5°	12616.1	3036.6	1204.5	1261.3	1575.0	1674.4	1587.7	1519.9	1437.9	1411.1
60°	13286.2	2388.6	1143.1	1204.5	1519.9	1622.3	1513.6	1423.7	1433.1	1412.7
62.5°	13330.3	1846.2	1068.9	1155.7	1436.3	1570.3	1464.7	1381.1	1453.6	1434.7
65°	12546.8	1395.3	998.0	1097.3	1346.4	1537.2	1417.4	1357.5	1496.2	1475.7
67.5°	10563.4	1122.6	938.1	1037.4	1256.6	1467.8	1374.8	1335.4	1534.1	1497.8
70°	7626.1	957.0	879.8	964.9	1176.2	1389.0	1337.0	1296.0	1431.6	1374.8
72.5°	4695.2	829.3	813.5	868.7	1114.7	1307.0	1280.2	1221.9	1289.7	1244.0
75°	2344.4	718.9	739.4	774.1	1028.0	1214.0	1185.6	1127.3	1136.7	1127.3
77.5°	1122.6	614.9	652.7	679.5	916.0	1108.4	1078.4	1018.5	1007.5	1009.0
80°	711.1	514.0	550.2	569.2	818.3	985.4	955.4	895.5	1021.7	947.5
82.5°	444.6	417.8	427.3	462.0	712.6	857.7	818.3	764.7	920.7	728.4
85°	246.0	291.7	304.3	334.2	548.7	717.4	677.9	610.2	547.1	537.6
87.5°	146.6	173.4	178.2	200.2	368.9	518.7	458.8	435.1	361.0	359.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)