

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: P192245

Luminaire Tested: **GLEON-AF-07-LED-E1-T3-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192245
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-07-LED-E1-T3-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 34024 lumens
Efficiency: N/A
Efficacy: 115.3 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

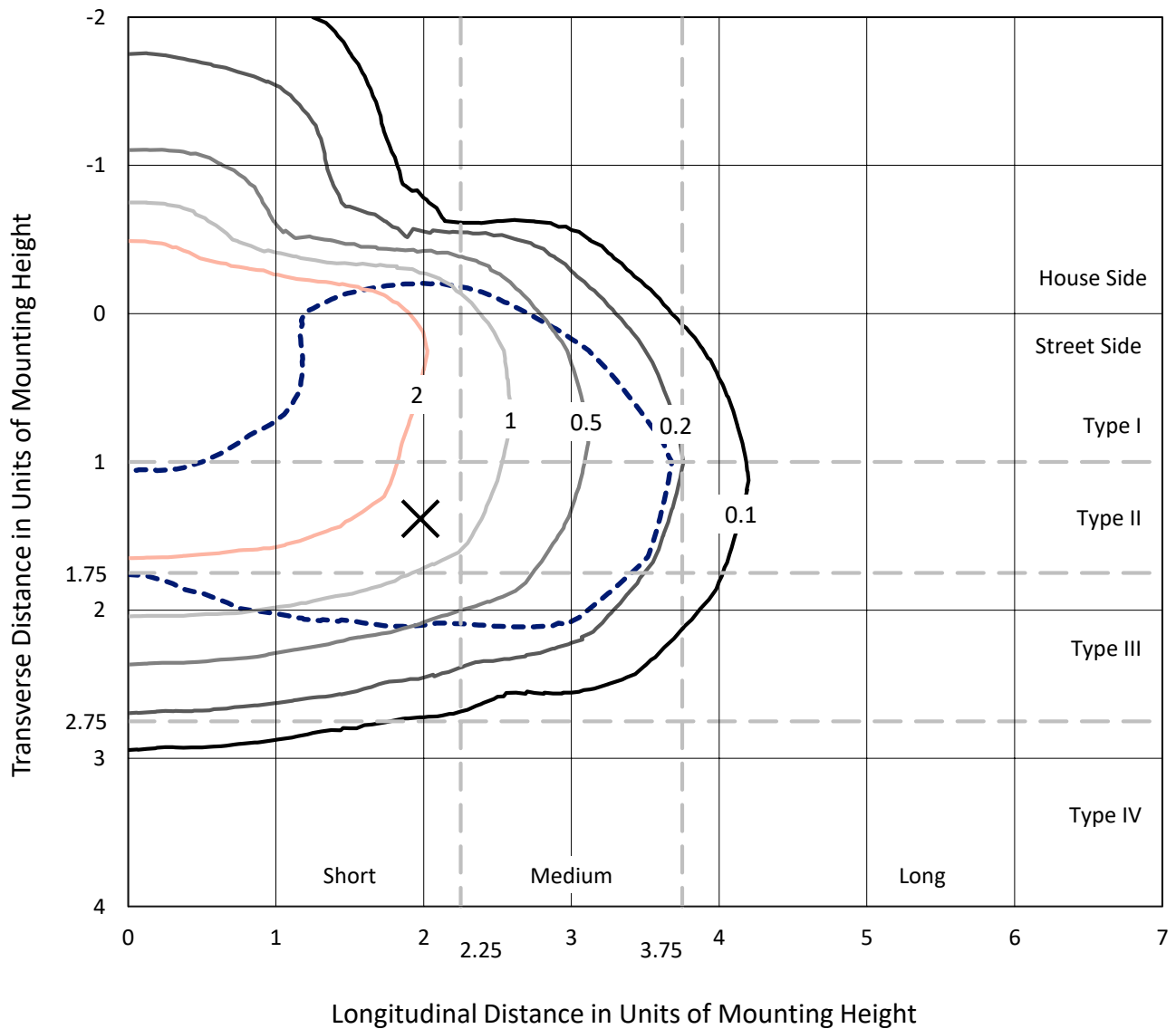
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

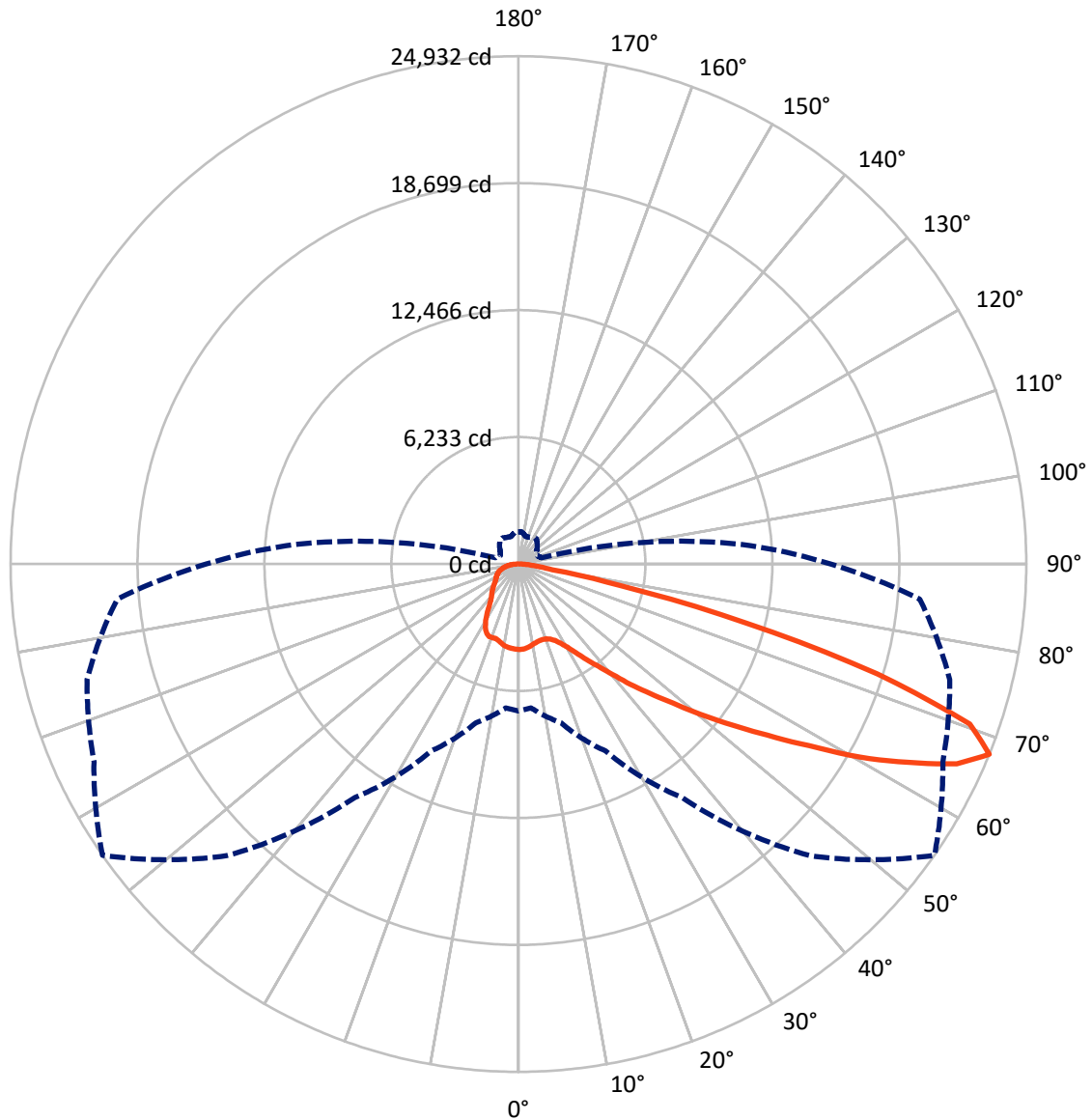
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.8 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	7349.9	0.0	7349.9
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	26674.1	0.0	26674.1
	% Fixture	78.4	0.0	78.4
Total	Lumens	34024.0	0.0	34024.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.6	1.2
10°-20°	1109.1	3.3
20°-30°	1857.9	5.5
30°-40°	3055.1	9.0
40°-50°	5142.7	15.1
50°-60°	8094.3	23.8
60°-70°	9659.7	28.4
70°-80°	4148.0	12.2
80°-90°	565.5	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°	34024.0	100.0
0°-180°	34024.0	100.0



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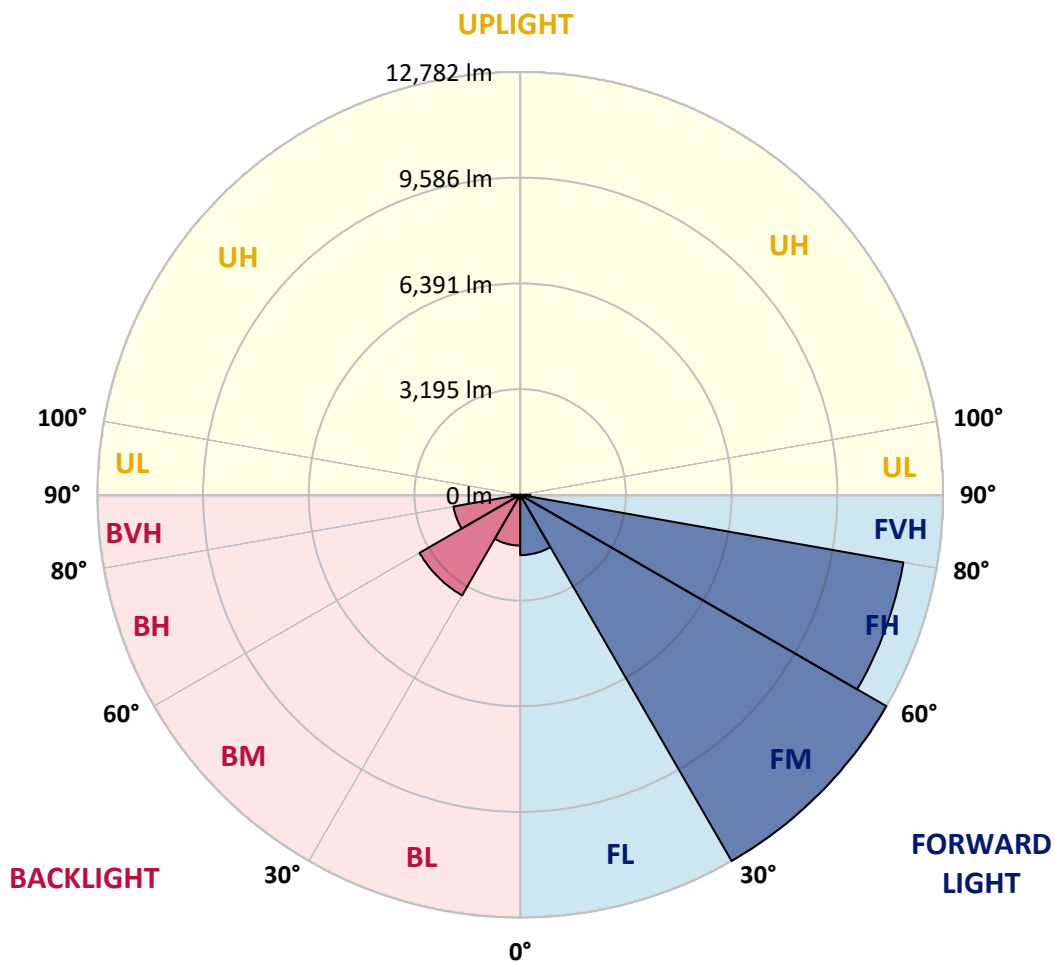
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1823.8	5.4			
FM	(30°-60°)	12781.9	37.6			
FH	(60°-80°)	11762.3	34.6			G4/12000
FVH	(80°-90°)	306.1	0.9			G3/500
BL	(0°-30°)	1534.8	4.5	B3/2500		
BM	(30°-60°)	3510.2	10.3	B3/5000		
BH	(60°-80°)	2045.5	6.0	B3/2500		G3/2500
BVH	(80°-90°)	259.4	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°	4195.5	4195.5	4195.5	4195.5	4195.5	4195.5	4195.5	4195.5	4195.5	4195.5	4195.5
2.5°	4159.4	4161.0	4164.3	4177.5	4189.0	4185.7	4187.3	4180.7	4179.1	4169.2	4179.1
5°	4106.8	4111.7	4113.4	4134.7	4147.9	4151.2	4146.2	4138.0	4128.2	4118.3	4123.2
7.5°	3986.8	4000.0	4001.6	4031.2	4052.6	4080.5	4082.1	4083.8	4078.9	4072.3	4082.1
10°	3911.2	3914.5	3912.9	3934.2	3950.7	3981.9	4000.0	4031.2	4044.3	4047.6	4054.2
12.5°	3906.3	3903.0	3898.1	3898.1	3893.2	3906.3	3939.2	3983.5	4014.8	4024.6	4032.8
15°	3958.9	3957.2	3940.8	3916.2	3884.9	3875.1	3903.0	3952.3	3993.4	4014.8	4023.0
17.5°	4077.2	4067.3	4041.1	3985.2	3917.8	3891.5	3894.8	3935.9	3983.5	4011.5	4019.7
20°	4294.1	4294.1	4238.3	4133.1	4013.1	3950.7	3921.1	3945.7	3991.8	4029.6	4041.1
22.5°	4668.8	4672.1	4578.4	4405.9	4203.7	4070.6	3996.7	3991.8	4046.0	4088.7	4101.9
25°	5199.6	5186.5	5055.0	4808.5	4501.2	4281.0	4152.8	4123.2	4169.2	4216.9	4233.3
27.5°	5817.5	5769.9	5613.8	5316.3	4918.6	4596.5	4399.3	4351.7	4396.0	4450.3	4466.7
30°	6428.9	6379.6	6193.9	5868.5	5426.4	5018.9	4736.2	4659.0	4721.4	4798.6	4808.5
32.5°	7040.2	7040.2	6833.1	6453.5	5972.0	5523.4	5184.8	5092.8	5196.3	5290.0	5311.4
35°	7771.5	7774.8	7574.3	7117.4	6599.8	6124.9	5751.8	5684.4	5840.5	5906.3	5957.2
37.5°	8670.4	8688.5	8430.5	7878.3	7311.4	6811.8	6368.1	6276.0	6432.2	6611.3	6775.6
40°	9641.7	9664.7	9380.4	8700.0	8133.1	7610.5	7130.6	6964.6	7224.3	7566.1	7778.1
42.5°	10568.5	10686.9	10412.4	9712.3	9102.6	8562.0	8075.5	7834.0	8159.3	8675.4	8859.4
45°	11907.9	11993.3	11515.1	10880.8	10307.2	9702.5	9058.3	8803.5	9258.8	9909.5	9947.3
47.5°	12800.2	12736.1	12492.9	12098.5	11735.3	11170.0	10200.4	9921.0	10525.8	11291.6	11079.6
50°	13275.2	13294.9	13262.0	13285.0	13298.2	12943.2	11600.6	11217.7	11939.1	12864.3	12376.2
52.5°	13718.9	13587.4	13695.9	14234.9	14885.7	14754.2	13124.0	12724.6	13454.3	14609.6	13746.8
55°	13709.0	13508.5	13861.8	14813.4	16225.0	16376.2	14834.7	14374.6	15056.6	16481.4	15199.6
57.5°	13224.2	13234.1	13778.0	15023.7	17158.5	17901.3	16819.9	16129.7	16755.8	18377.8	16525.8
60°	12557.0	12647.4	13431.3	14989.2	17906.2	19151.9	19255.4	18021.2	18420.6	20101.7	17623.5
62.5°	11480.6	11575.9	12657.3	14630.9	17792.8	20356.5	21457.5	20167.5	20160.9	21146.9	17945.6
65°	9783.0	9755.1	10890.6	13291.6	16841.3	21247.2	23644.8	22022.8	21472.3	21163.4	17298.1
67.5°	7214.4	7089.5	8064.0	10123.2	13998.2	20249.6	24931.6	22989.1	21919.3	19771.4	15319.5
70°	3743.6	3618.7	4407.5	5911.2	9206.2	15804.3	23506.8	22489.6	20931.6	16573.4	12001.6
72.5°	1600.6	1579.3	1899.7	2593.2	4453.5	9115.8	18432.1	19465.8	17960.4	12348.3	8251.4
75°	1076.4	1069.8	1189.8	1413.3	2003.3	3699.2	11534.8	13817.5	13140.4	7656.5	4640.9
77.5°	844.7	836.5	907.1	1015.6	1298.3	1459.3	5119.1	7418.2	6866.0	3332.8	2031.2
80°	660.6	654.1	698.4	757.6	933.4	920.3	1684.5	2951.5	2284.3	1276.9	987.7
82.5°	520.9	520.9	557.1	558.7	662.3	627.8	879.2	1299.9	1140.5	744.4	604.8
85°	476.6	476.6	514.4	417.4	432.2	396.1	545.6	770.7	723.1	305.7	262.9
87.5°	239.9	233.4	432.2	369.8	235.0	210.4	266.2	373.0	401.0	169.3	131.5
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°	4195.5	4195.5	4195.5	4195.5	4195.5	4195.5	4195.5	4195.5	4195.5	4195.5
2.5°	4175.8	4174.2	4177.5	4179.1	4192.2	4210.3	4218.5	4230.0	4236.6	4233.3
5°	4126.5	4129.8	4142.9	4152.8	4175.8	4205.4	4221.8	4235.0	4246.5	4241.5
7.5°	4085.4	4093.6	4113.4	4121.6	4134.7	4142.9	4141.3	4146.2	4156.1	4144.6
10°	4062.4	4072.3	4087.1	4075.6	4044.3	4000.0	3958.9	3937.5	3944.1	3935.9
12.5°	4039.4	4052.6	4041.1	3986.8	3899.7	3842.2	3811.0	3814.3	3829.1	3832.3
15°	4026.3	4031.2	3981.9	3880.0	3791.3	3783.0	3799.5	3796.2	3797.8	3797.8
17.5°	4026.3	4013.1	3921.1	3819.2	3781.4	3766.6	3715.7	3651.6	3623.6	3613.8
20°	4047.6	4013.1	3901.4	3834.0	3751.8	3625.3	3490.5	3372.2	3319.6	3304.8
22.5°	4111.7	4052.6	3957.2	3840.6	3607.2	3395.2	3181.6	3040.2	2944.9	2928.5
25°	4241.5	4175.8	4067.3	3753.5	3377.1	3074.8	2831.5	2673.8	2578.5	2565.3
27.5°	4468.3	4425.6	4126.5	3561.2	3071.5	2747.7	2522.6	2401.0	2330.3	2325.4
30°	4810.2	4788.8	4096.9	3276.9	2695.1	2430.5	2322.1	2251.4	2198.8	2197.2
32.5°	5355.8	5183.2	4000.0	2930.1	2351.7	2205.4	2161.0	2118.3	2077.2	2077.2
35°	6057.5	5502.0	3815.9	2558.7	2143.0	2080.5	2024.6	1957.3	1903.0	1899.7
37.5°	6882.4	5699.2	3485.6	2259.6	2044.4	1996.7	1914.5	1814.3	1719.0	1702.5
40°	7715.6	5758.4	3020.5	2075.6	1981.9	1912.9	1812.6	1694.3	1602.3	1597.4
42.5°	8479.8	5645.0	2527.5	1949.0	1919.5	1827.4	1722.3	1617.1	1544.8	1543.1
45°	9120.7	5350.8	2113.4	1829.1	1853.7	1750.2	1656.5	1571.1	1515.2	1503.7
47.5°	9723.8	4935.0	1822.5	1702.5	1788.0	1707.5	1628.6	1548.1	1493.8	1485.6
50°	10423.9	4486.4	1618.7	1579.3	1730.5	1692.7	1651.6	1567.8	1477.4	1467.5
52.5°	11271.9	4098.6	1459.3	1470.8	1686.1	1712.4	1710.8	1623.7	1465.9	1452.7
55°	12218.5	3668.0	1339.3	1382.1	1668.0	1748.5	1725.5	1676.2	1475.7	1456.0
57.5°	13150.3	3165.1	1255.5	1314.7	1641.7	1745.3	1654.9	1584.2	1498.8	1470.8
60°	13848.7	2489.7	1191.4	1255.5	1584.2	1691.0	1577.6	1484.0	1493.8	1472.5
62.5°	13894.7	1924.4	1114.2	1204.6	1497.1	1636.8	1526.7	1439.6	1515.2	1495.5
65°	13078.0	1454.4	1040.3	1143.8	1403.4	1602.3	1477.4	1414.9	1559.6	1538.2
67.5°	11010.6	1170.1	977.8	1081.3	1309.8	1530.0	1433.0	1391.9	1599.0	1561.2
70°	7949.0	997.5	917.0	1005.7	1226.0	1447.8	1393.6	1350.9	1492.2	1433.0
72.5°	4894.0	864.4	848.0	905.5	1161.9	1362.4	1334.4	1273.6	1344.3	1296.6
75°	2443.7	749.4	770.7	806.9	1071.5	1265.4	1235.8	1175.0	1184.9	1175.0
77.5°	1170.1	640.9	680.4	708.3	954.8	1155.3	1124.1	1061.6	1050.1	1051.8
80°	741.2	535.7	573.5	593.3	852.9	1027.1	995.9	933.4	1064.9	987.7
82.5°	463.4	435.5	445.4	481.5	742.8	894.0	852.9	797.0	959.7	759.2
85°	256.4	304.0	317.2	348.4	571.9	747.7	706.7	636.0	570.3	560.4
87.5°	152.8	180.8	185.7	208.7	384.5	540.7	478.2	453.6	376.3	374.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)