

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: P193996

Luminaire Tested: **GLEON-AF-08-LED-E1-T3-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193996
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-T3-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38935 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 445
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

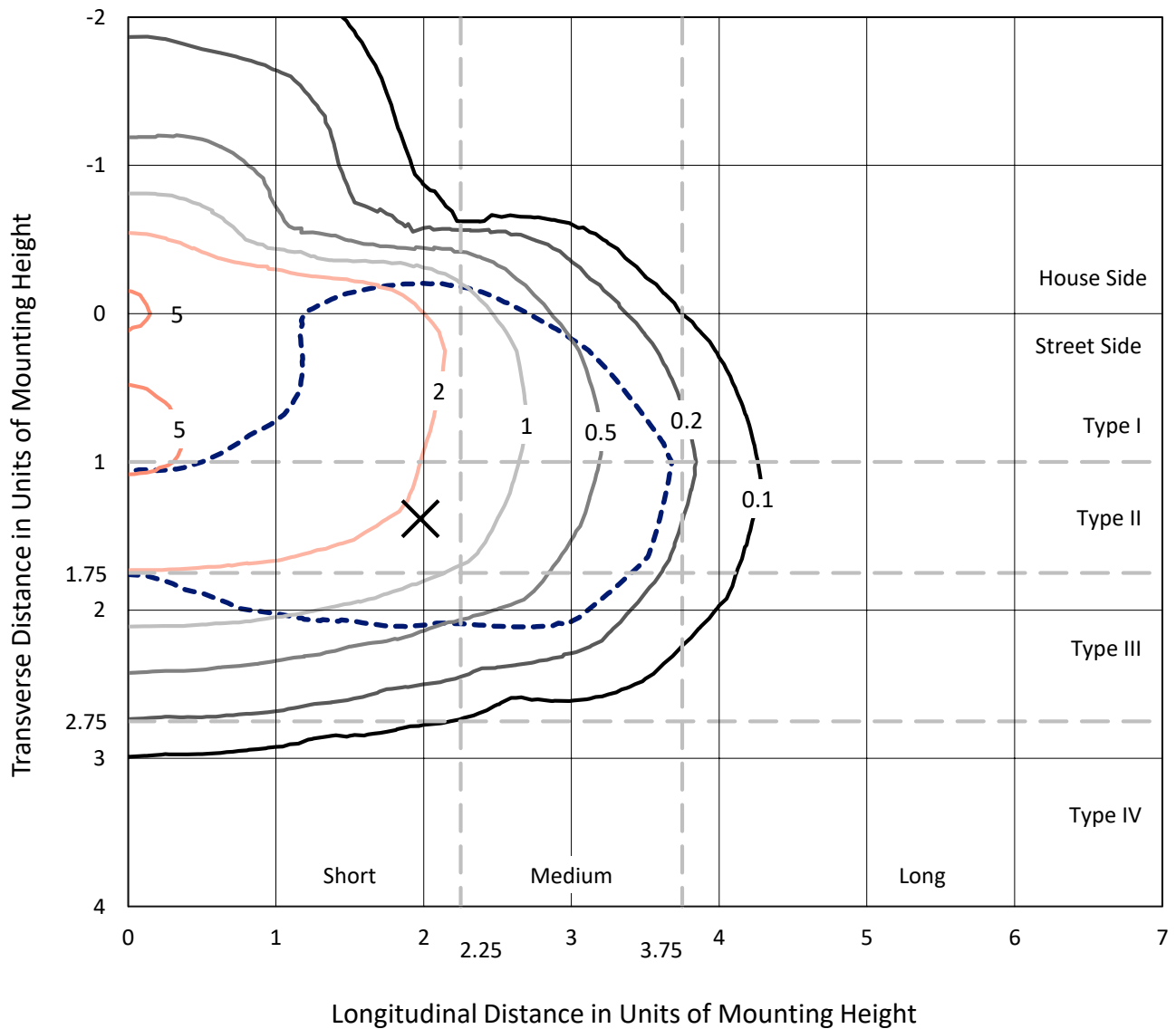


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

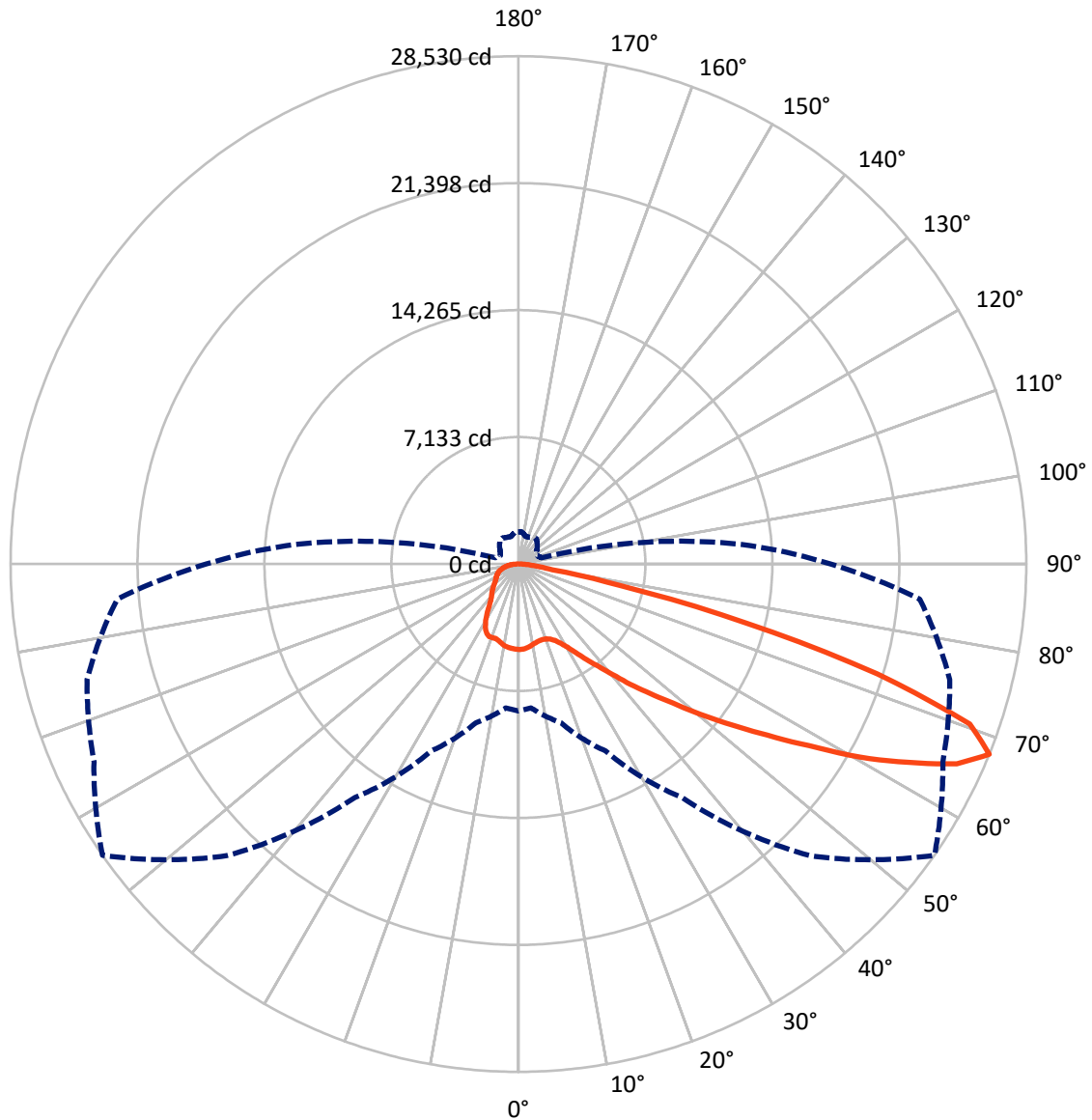


Based on 30 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Short - Full Cutoff

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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	8410.8	0.0	8410.8
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	30524.2	0.0	30524.2
	% Fixture	78.4	0.0	78.4
Total	Lumens	38935.0	0.0	38935.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.1	1.2
10°-20°	1269.2	3.3
20°-30°	2126.0	5.5
30°-40°	3496.1	9.0
40°-50°	5885.0	15.1
50°-60°	9262.6	23.8
60°-70°	11053.9	28.4
70°-80°	4746.8	12.2
80°-90°	647.2	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°	38935.0	100.0
0°-180°	38935.0	100.0



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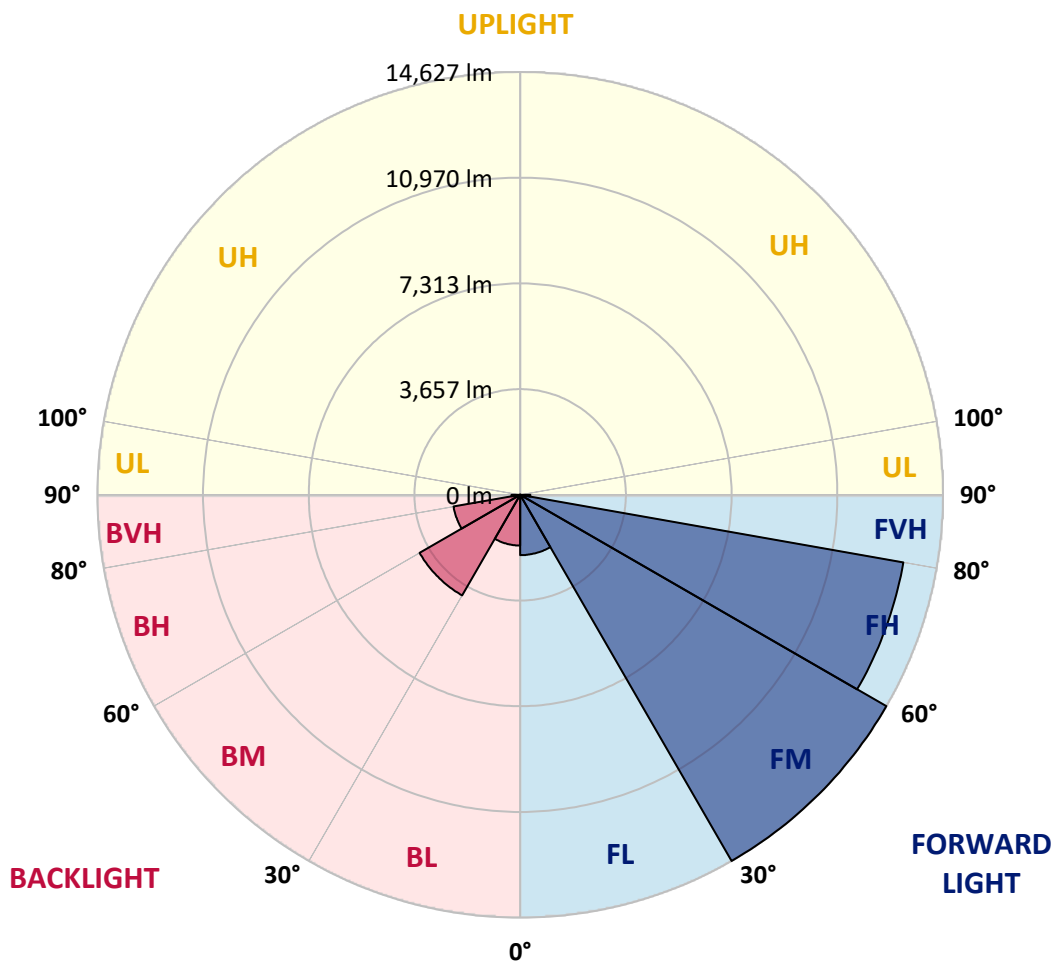
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2087.0	5.4			
FM	(30°-60°)	14626.9	37.6			
FH	(60°-80°)	13460.0	34.6			G5
FVH	(80°-90°)	350.3	0.9			G3/500
BL	(0°-30°)	1756.3	4.5	B3/2500		
BM	(30°-60°)	4016.9	10.3	B3/5000		
BH	(60°-80°)	2340.7	6.0	B3/2500		G3/2500
BVH	(80°-90°)	296.9	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-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4801.1	4801.1	4801.1	4801.1	4801.1	4801.1	4801.1	4801.1	4801.1	4801.1	4801.1
2.5°	4759.7	4761.6	4765.4	4780.4	4793.6	4789.8	4791.7	4784.2	4782.3	4771.0	4782.3
5°	4699.6	4705.2	4707.1	4731.5	4746.6	4750.3	4744.7	4735.3	4724.0	4712.7	4718.4
7.5°	4562.3	4577.3	4579.2	4613.1	4637.5	4669.5	4671.4	4673.2	4667.6	4660.1	4671.4
10°	4475.8	4479.5	4477.7	4502.1	4520.9	4556.6	4577.3	4613.1	4628.1	4631.9	4639.4
12.5°	4470.1	4466.4	4460.7	4460.7	4455.1	4470.1	4507.7	4558.5	4594.2	4605.5	4614.9
15°	4530.3	4528.4	4509.6	4481.4	4445.7	4434.4	4466.4	4522.8	4569.8	4594.2	4603.7
17.5°	4665.7	4654.4	4624.3	4560.4	4483.3	4453.2	4457.0	4504.0	4558.5	4590.5	4599.9
20°	4913.9	4913.9	4850.0	4729.6	4592.4	4520.9	4487.1	4515.3	4567.9	4611.2	4624.3
22.5°	5342.7	5346.5	5239.3	5041.8	4810.5	4658.2	4573.6	4567.9	4630.0	4678.9	4693.9
25°	5950.1	5935.1	5784.7	5502.6	5150.9	4898.9	4752.2	4718.4	4771.0	4825.6	4844.4
27.5°	6657.2	6602.7	6424.0	6083.7	5628.6	5260.0	5034.3	4979.8	5030.5	5092.6	5111.4
30°	7356.8	7300.4	7087.9	6715.5	6209.7	5743.3	5419.8	5331.4	5402.9	5491.3	5502.6
32.5°	8056.4	8056.4	7819.4	7385.0	6834.0	6320.6	5933.2	5827.9	5946.4	6053.6	6078.0
35°	8893.2	8897.0	8667.6	8144.8	7552.4	7008.9	6582.0	6504.9	6683.6	6758.8	6817.1
37.5°	9921.9	9942.6	9647.4	9015.5	8366.7	7795.0	7287.2	7181.9	7360.6	7565.6	7753.6
40°	11033.3	11059.7	10734.3	9955.8	9307.0	8708.9	8159.8	7969.9	8267.0	8658.2	8900.8
42.5°	12094.0	12229.4	11915.3	11114.2	10416.5	9797.8	9241.2	8964.7	9337.1	9927.6	10138.2
45°	13626.7	13724.4	13177.2	12451.3	11795.0	11102.9	10365.7	10074.2	10595.2	11339.9	11383.1
47.5°	14647.8	14574.5	14296.1	13844.8	13429.2	12782.3	11672.7	11353.0	12045.1	12921.4	12678.8
50°	15191.3	15213.9	15176.2	15202.6	15217.6	14811.4	13275.0	12836.8	13662.4	14721.1	14162.6
52.5°	15699.0	15548.6	15672.7	16289.6	17034.3	16883.8	15018.3	14561.3	15396.3	16718.3	15731.0
55°	15687.8	15458.3	15862.7	16951.5	18566.9	18739.9	16976.0	16449.4	17229.8	18860.3	17393.4
57.5°	15133.0	15144.3	15766.8	17192.2	19635.1	20485.1	19247.7	18457.9	19174.4	21030.5	18911.1
60°	14369.5	14472.9	15369.9	17152.7	20490.8	21916.2	22034.7	20622.4	21079.4	23003.2	20167.3
62.5°	13137.7	13246.8	14484.2	16742.8	20361.0	23294.7	24554.7	23078.4	23070.9	24199.3	20535.9
65°	11195.1	11163.1	12462.6	15210.1	19272.1	24314.0	27057.7	25201.6	24571.6	24218.1	19794.9
67.5°	8255.7	8112.8	9228.0	11584.3	16018.7	23172.5	28530.2	26307.4	25083.1	22625.2	17530.7
70°	4284.0	4141.0	5043.7	6764.4	10535.0	18085.5	26899.8	25735.7	23952.9	18965.6	13733.8
72.5°	1831.7	1807.2	2173.9	2967.5	5096.4	10431.6	21092.5	22275.4	20552.8	14130.6	9442.4
75°	1231.8	1224.3	1361.5	1617.3	2292.4	4233.2	13199.8	15811.9	15037.1	8761.6	5310.7
77.5°	966.6	957.2	1038.1	1162.2	1485.7	1670.0	5858.0	8488.9	7857.0	3813.8	2324.4
80°	756.0	748.5	799.2	866.9	1068.2	1053.1	1927.6	3377.5	2614.0	1461.2	1130.2
82.5°	596.1	596.1	637.5	639.4	757.9	718.4	1006.1	1487.5	1305.1	851.9	692.1
85°	545.4	545.4	588.6	477.7	494.6	453.2	624.4	882.0	827.5	349.8	300.9
87.5°	274.6	267.0	494.6	423.1	268.9	240.7	304.7	426.9	458.9	193.7	150.4
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°	4801.1	4801.1	4801.1	4801.1	4801.1	4801.1	4801.1	4801.1	4801.1	4801.1
2.5°	4778.5	4776.7	4780.4	4782.3	4797.3	4818.0	4827.4	4840.6	4848.1	4844.4
5°	4722.1	4725.9	4740.9	4752.2	4778.5	4812.4	4831.2	4846.2	4859.4	4853.8
7.5°	4675.1	4684.5	4707.1	4716.5	4731.5	4740.9	4739.1	4744.7	4756.0	4742.8
10°	4648.8	4660.1	4677.0	4663.8	4628.1	4577.3	4530.3	4505.9	4513.4	4504.0
12.5°	4622.5	4637.5	4624.3	4562.3	4462.6	4396.8	4361.1	4364.8	4381.7	4385.5
15°	4607.4	4613.1	4556.6	4440.0	4338.5	4329.1	4347.9	4344.1	4346.0	4346.0
17.5°	4607.4	4592.4	4487.1	4370.5	4327.2	4310.3	4252.0	4178.6	4146.7	4135.4
20°	4631.9	4592.4	4464.5	4387.4	4293.4	4148.6	3994.3	3858.9	3798.8	3781.8
22.5°	4705.2	4637.5	4528.4	4394.9	4127.9	3885.3	3640.8	3479.1	3370.0	3351.2
25°	4853.8	4778.5	4654.4	4295.2	3864.6	3518.6	3240.2	3059.7	2950.6	2935.6
27.5°	5113.3	5064.4	4722.1	4075.2	3514.8	3144.3	2886.7	2747.5	2666.7	2661.0
30°	5504.4	5480.0	4688.3	3749.9	3084.1	2781.4	2657.3	2576.4	2516.2	2514.3
32.5°	6128.8	5931.3	4577.3	3353.1	2691.1	2523.7	2473.0	2424.1	2377.0	2377.0
35°	6931.8	6296.2	4366.7	2928.1	2452.3	2380.8	2316.9	2239.8	2177.7	2173.9
37.5°	7875.9	6521.8	3988.7	2585.8	2339.4	2284.9	2190.9	2076.2	1967.1	1948.3
40°	8829.3	6589.5	3456.5	2375.2	2268.0	2189.0	2074.3	1938.9	1833.6	1827.9
42.5°	9703.8	6459.8	2892.3	2230.4	2196.5	2091.2	1970.8	1850.5	1767.7	1765.9
45°	10437.2	6123.2	2418.4	2093.1	2121.3	2002.8	1895.6	1797.8	1733.9	1720.7
47.5°	11127.4	5647.4	2085.6	1948.3	2046.1	1953.9	1863.7	1771.5	1709.4	1700.0
50°	11928.5	5134.0	1852.4	1807.2	1980.2	1937.0	1890.0	1794.1	1690.6	1679.4
52.5°	12898.9	4690.2	1670.0	1683.1	1929.5	1959.6	1957.7	1858.0	1677.5	1662.4
55°	13982.1	4197.4	1532.7	1581.6	1908.8	2000.9	1974.6	1918.2	1688.8	1666.2
57.5°	15048.4	3622.0	1436.8	1504.5	1878.7	1997.2	1893.7	1812.9	1715.1	1683.1
60°	15847.6	2849.1	1363.4	1436.8	1812.9	1935.1	1805.4	1698.2	1709.4	1685.0
62.5°	15900.3	2202.2	1275.0	1378.5	1713.2	1873.1	1747.1	1647.4	1733.9	1711.3
65°	14965.6	1664.3	1190.4	1308.9	1606.0	1833.6	1690.6	1619.2	1784.7	1760.2
67.5°	12599.9	1339.0	1118.9	1237.4	1498.8	1750.8	1639.9	1592.8	1829.8	1786.5
70°	9096.3	1141.5	1049.4	1150.9	1402.9	1656.8	1594.7	1545.8	1707.6	1639.9
72.5°	5600.4	989.2	970.4	1036.2	1329.6	1559.0	1527.0	1457.4	1538.3	1483.8
75°	2796.4	857.5	882.0	923.4	1226.1	1448.0	1414.2	1344.6	1355.9	1344.6
77.5°	1339.0	733.4	778.6	810.5	1092.6	1322.0	1286.3	1214.9	1201.7	1203.6
80°	848.1	613.1	656.3	678.9	976.0	1175.4	1139.6	1068.2	1218.6	1130.2
82.5°	530.3	498.4	509.6	551.0	850.0	1023.0	976.0	912.1	1098.3	868.8
85°	293.4	347.9	363.0	398.7	654.4	855.7	808.6	727.8	652.6	641.3
87.5°	174.9	206.9	212.5	238.8	440.1	618.7	547.2	519.0	430.7	428.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)