

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: P193178

Luminaire Tested: **GLEON-AF-10-LED-E1-T3-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193178
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-10-LED-E1-T3-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37552.4 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 323
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

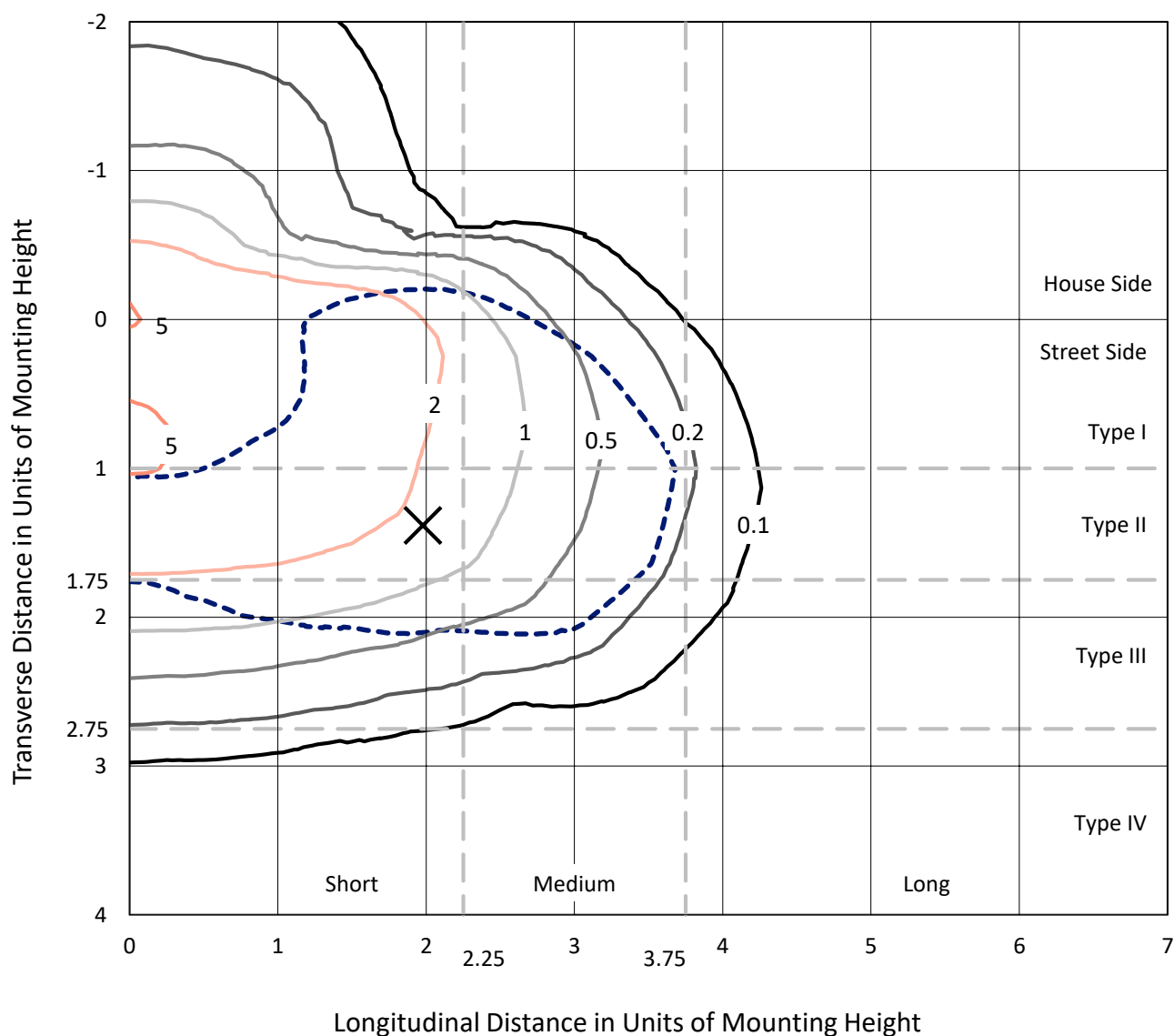


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

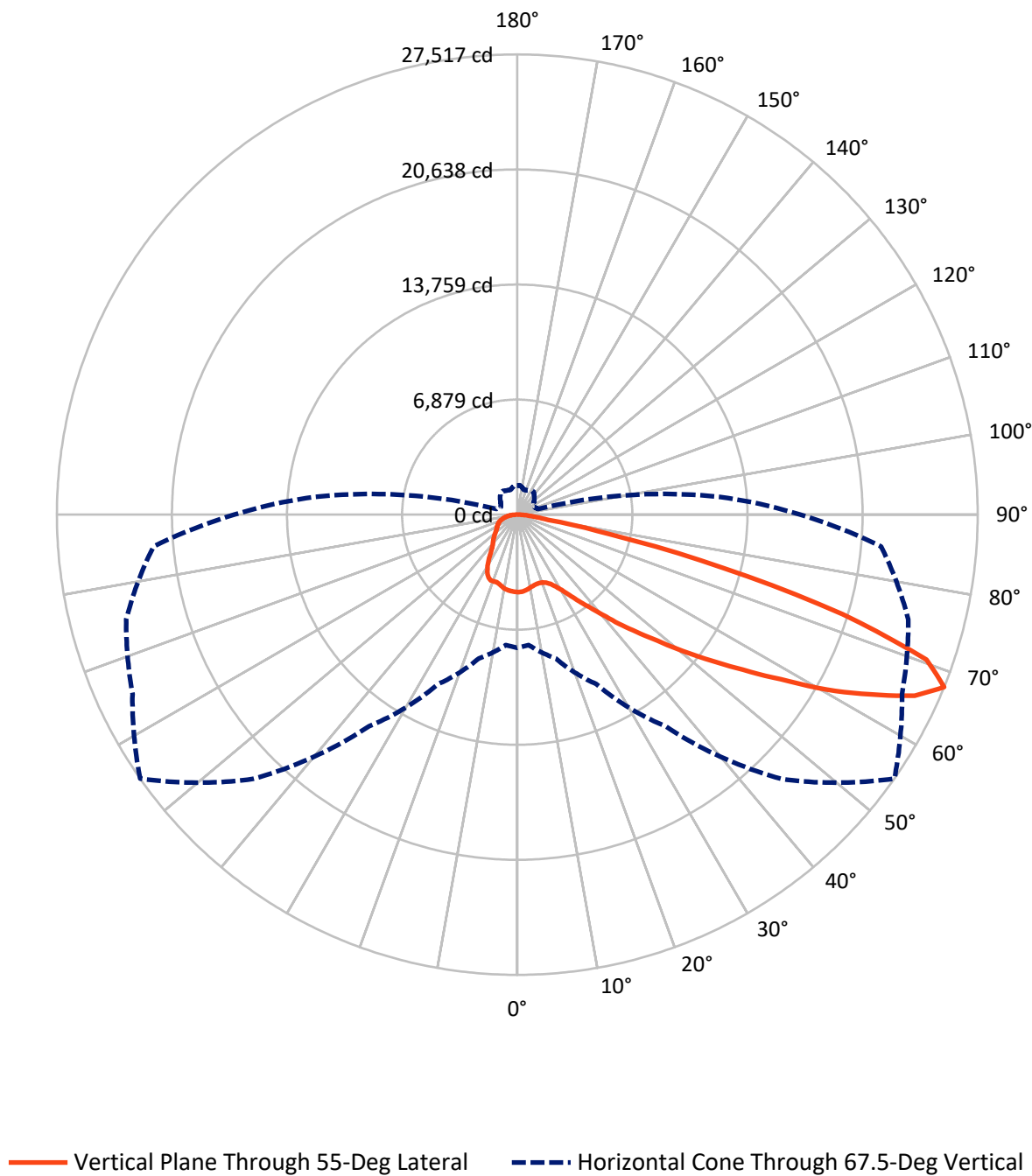


Based on 30 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8112.1	0.0	8112.1
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	29440.3	0.0	29440.3
	% Fixture	78.4	0.0	78.4
Total	Lumens	37552.4	0.0	37552.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.2	1.2
10°-20°	1224.1	3.3
20°-30°	2050.5	5.5
30°-40°	3372.0	9.0
40°-50°	5676.1	15.1
50°-60°	8933.7	23.8
60°-70°	10661.4	28.4
70°-80°	4578.2	12.2
80°-90°	624.2	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°	37552.4	100.0
0°-180°	37552.4	100.0

Coefficient of Utilization



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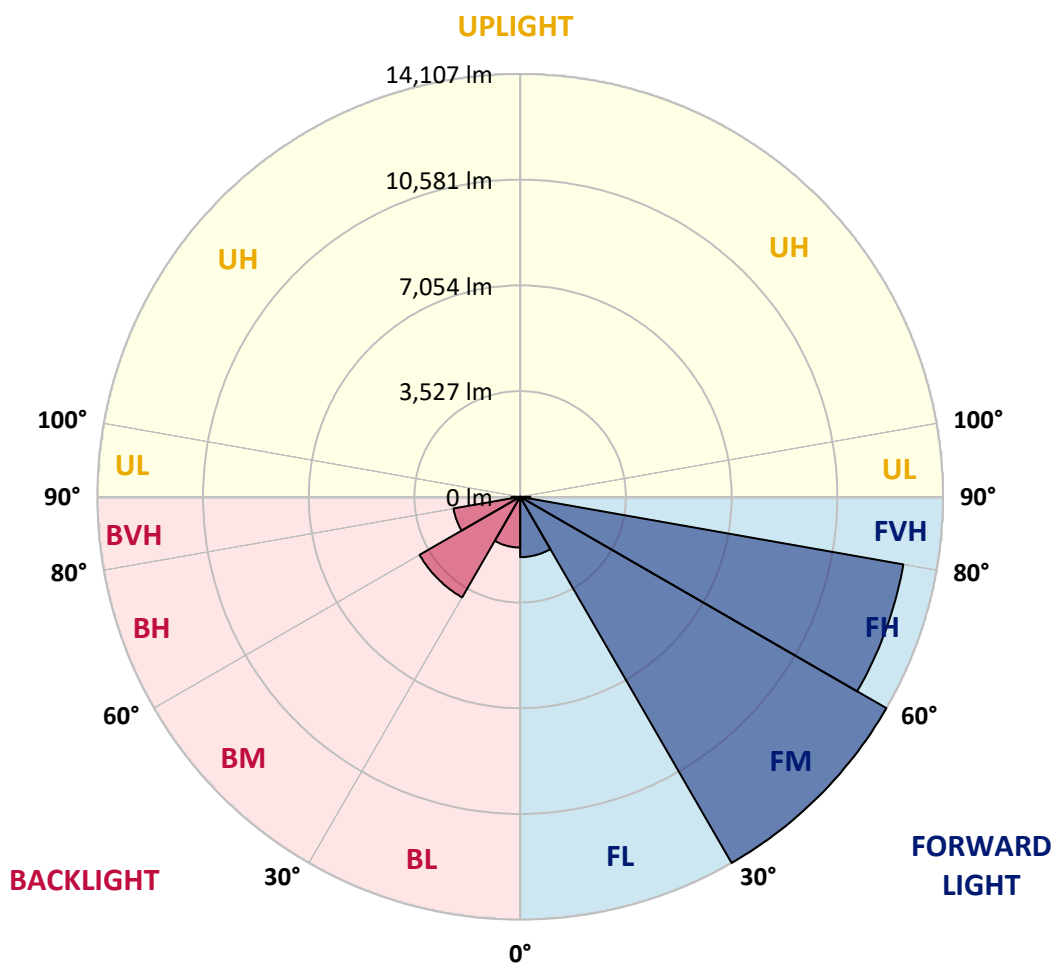
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2012.9	5.4			
FM	(30°-60°)	14107.4	37.6			
FH	(60°-80°)	12982.0	34.6			G5
FVH	(80°-90°)	337.9	0.9			G3/500
BL	(0°-30°)	1694.0	4.5	B3/2500		
BM	(30°-60°)	3874.3	10.3	B3/5000		
BH	(60°-80°)	2257.6	6.0	B3/2500		G3/2500
BVH	(80°-90°)	286.3	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°	4630.6	4630.6	4630.6	4630.6	4630.6	4630.6	4630.6	4630.6	4630.6	4630.6	4630.6
2.5°	4590.7	4592.5	4596.2	4610.6	4623.5	4619.7	4621.5	4614.3	4612.5	4601.6	4612.5
5°	4532.7	4538.1	4539.9	4563.5	4578.1	4581.7	4576.3	4567.1	4556.2	4545.4	4550.8
7.5°	4400.3	4414.7	4416.6	4449.2	4472.8	4503.6	4505.6	4507.3	4501.8	4494.6	4505.6
10°	4316.9	4320.4	4318.7	4342.2	4360.3	4394.9	4414.7	4449.2	4463.8	4467.4	4474.6
12.5°	4311.4	4307.8	4302.3	4302.3	4296.8	4311.4	4347.7	4396.6	4431.1	4441.9	4451.0
15°	4369.4	4367.6	4349.5	4322.3	4287.8	4277.0	4307.8	4362.1	4407.5	4431.1	4440.2
17.5°	4500.1	4489.1	4460.1	4398.4	4324.1	4295.1	4298.7	4344.0	4396.6	4427.5	4436.6
20°	4739.4	4739.4	4677.8	4561.7	4429.3	4360.3	4327.8	4355.0	4405.7	4447.4	4460.1
22.5°	5153.0	5156.6	5053.2	4862.8	4639.7	4492.7	4411.2	4405.7	4465.5	4512.7	4527.2
25°	5738.9	5724.3	5579.3	5307.2	4968.0	4724.9	4583.4	4550.8	4601.6	4654.2	4672.4
27.5°	6420.8	6368.2	6195.9	5867.7	5428.6	5073.2	4855.5	4802.9	4851.8	4911.8	4929.9
30°	7095.7	7041.1	6836.3	6477.1	5989.1	5539.3	5227.4	5142.1	5211.0	5296.3	5307.2
32.5°	7770.3	7770.3	7541.7	7122.8	6591.3	6096.1	5722.6	5621.0	5735.2	5838.6	5862.2
35°	8577.4	8581.1	8359.8	7855.5	7284.2	6760.0	6348.3	6273.8	6446.2	6518.7	6575.0
37.5°	9569.6	9589.5	9304.7	8695.3	8069.6	7518.2	7028.4	6926.9	7099.2	7296.9	7478.2
40°	10641.6	10667.0	10353.2	9602.2	8976.5	8399.8	7870.1	7686.8	7973.4	8350.6	8584.7
42.5°	11664.5	11795.1	11492.2	10719.5	10046.6	9449.9	8913.1	8646.3	9005.4	9575.1	9778.1
45°	13142.8	13237.1	12709.2	12009.1	11376.2	10708.6	9997.7	9716.5	10218.9	10937.2	10978.9
47.5°	14127.7	14057.0	13788.5	13353.1	12952.3	12328.4	11258.2	10949.9	11617.3	12462.5	12228.7
50°	14651.8	14673.6	14637.4	14662.7	14677.3	14285.4	12803.5	12380.9	13177.2	14198.4	13659.7
52.5°	15141.5	14996.5	15116.1	15711.2	16429.4	16284.2	14484.9	14044.1	14849.5	16124.7	15172.4
55°	15130.7	14909.4	15299.3	16349.5	17907.6	18074.4	16373.1	15865.3	16618.0	18190.6	16775.7
57.5°	14595.6	14606.6	15206.9	16581.7	18937.8	19757.7	18564.2	17802.3	18493.4	20283.7	18239.5
60°	13859.2	13959.0	14824.2	16543.6	19763.2	21138.0	21252.2	19890.1	20330.9	22186.4	19451.1
62.5°	12671.3	12776.3	13969.9	16148.2	19637.9	22467.5	23682.7	22259.0	22251.6	23340.0	19806.6
65°	10797.5	10766.7	12020.0	14670.0	18587.7	23450.6	26096.9	24306.7	23699.1	23358.1	19092.1
67.5°	7962.6	7824.7	8900.3	11173.0	15450.0	22349.6	27517.1	25373.2	24192.4	21821.8	16908.2
70°	4131.8	3994.0	4864.6	6524.2	10160.9	17443.2	25944.6	24821.8	23102.4	18292.1	13246.1
72.5°	1766.6	1743.0	2096.8	2862.1	4915.3	10061.1	20343.5	21484.4	19823.0	13628.9	9107.1
75°	1188.0	1180.8	1313.2	1559.9	2211.0	4082.9	12731.0	15250.4	14503.1	8450.4	5122.2
77.5°	932.3	923.2	1001.3	1120.9	1432.9	1610.7	5650.1	8187.5	7578.0	3678.4	2241.9
80°	729.2	721.8	770.9	836.2	1030.2	1015.7	1859.1	3257.6	2521.1	1409.3	1090.1
82.5°	574.9	574.9	614.9	616.7	731.0	692.9	970.3	1434.7	1258.7	821.6	667.5
85°	526.0	526.0	567.7	460.7	477.0	437.1	602.1	850.7	798.0	337.4	290.2
87.5°	264.9	257.6	477.0	408.1	259.4	232.1	293.8	411.7	442.6	186.9	145.1
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°	4630.6	4630.6	4630.6	4630.6	4630.6	4630.6	4630.6	4630.6	4630.6	4630.6
2.5°	4608.9	4607.0	4610.6	4612.5	4627.0	4646.9	4656.0	4668.7	4676.0	4672.4
5°	4554.5	4558.1	4572.6	4583.4	4608.9	4641.6	4659.7	4674.1	4686.9	4681.4
7.5°	4509.1	4518.2	4539.9	4549.0	4563.5	4572.6	4570.8	4576.3	4587.1	4574.3
10°	4483.7	4494.6	4510.9	4498.2	4463.8	4414.7	4369.4	4345.9	4353.1	4344.0
12.5°	4458.4	4472.8	4460.1	4400.3	4304.2	4240.7	4206.2	4209.9	4226.1	4229.8
15°	4443.8	4449.2	4394.9	4282.4	4184.4	4175.4	4193.5	4189.9	4191.7	4191.7
17.5°	4443.8	4429.3	4327.8	4215.2	4173.6	4157.2	4101.0	4030.2	3999.4	3988.5
20°	4467.4	4429.3	4305.9	4231.6	4140.9	4001.2	3852.5	3721.9	3663.9	3647.5
22.5°	4538.1	4472.8	4367.6	4238.8	3981.3	3747.3	3511.5	3355.6	3250.4	3232.2
25°	4681.4	4608.9	4489.1	4142.7	3727.4	3393.6	3125.2	2951.1	2845.8	2831.4
27.5°	4931.8	4884.6	4554.5	3930.5	3390.0	3032.7	2784.2	2650.0	2572.0	2566.5
30°	5309.0	5285.4	4521.8	3616.7	2974.6	2682.7	2562.9	2484.9	2426.8	2425.0
32.5°	5911.2	5720.7	4414.7	3234.0	2595.6	2434.1	2385.1	2337.9	2292.6	2292.6
35°	6685.7	6072.6	4211.6	2824.2	2365.3	2296.3	2234.6	2160.3	2100.4	2096.8
37.5°	7596.1	6290.3	3847.0	2494.0	2256.3	2203.8	2113.1	2002.4	1897.2	1879.0
40°	8515.7	6355.5	3333.7	2290.8	2187.5	2111.2	2000.6	1870.0	1768.5	1763.0
42.5°	9359.1	6230.4	2789.6	2151.2	2118.5	2016.9	1900.9	1784.7	1705.0	1703.2
45°	10066.6	5905.7	2332.5	2018.8	2046.0	1931.7	1828.4	1734.0	1672.3	1659.6
47.5°	10732.2	5446.8	2011.5	1879.0	1973.4	1884.5	1797.5	1708.6	1648.7	1639.7
50°	11504.9	4951.6	1786.6	1743.0	1910.0	1868.3	1822.9	1730.3	1630.5	1619.8
52.5°	12440.8	4523.7	1610.7	1623.4	1860.9	1889.9	1888.1	1792.1	1617.9	1603.4
55°	13485.6	4048.4	1478.3	1525.4	1841.0	1929.8	1904.5	1850.1	1628.8	1606.9
57.5°	14514.0	3493.3	1385.7	1451.1	1811.9	1926.2	1826.5	1748.4	1654.1	1623.4
60°	15284.9	2747.9	1315.1	1385.7	1748.4	1866.3	1741.3	1637.9	1648.7	1625.1
62.5°	15335.6	2124.0	1229.7	1329.4	1652.3	1806.5	1685.0	1588.8	1672.3	1650.6
65°	14434.2	1605.2	1148.1	1262.4	1549.0	1768.5	1630.5	1561.7	1721.3	1697.7
67.5°	12152.5	1291.5	1079.3	1193.4	1445.6	1688.6	1581.6	1536.3	1764.9	1723.1
70°	8773.3	1101.0	1012.1	1110.1	1353.0	1597.9	1538.2	1491.0	1647.0	1581.6
72.5°	5401.4	954.1	936.0	999.4	1282.3	1503.6	1472.9	1405.7	1483.6	1431.1
75°	2697.1	827.1	850.7	890.6	1182.6	1396.7	1364.0	1296.9	1307.8	1296.9
77.5°	1291.5	707.4	750.9	781.7	1053.8	1275.0	1240.6	1171.7	1159.0	1160.9
80°	818.1	591.3	633.0	654.8	941.4	1133.7	1099.1	1030.2	1175.3	1090.1
82.5°	511.5	480.6	491.5	531.4	819.9	986.7	941.4	879.6	1059.3	838.0
85°	283.0	335.5	350.0	384.5	631.2	825.2	779.9	702.0	629.4	618.5
87.5°	168.7	199.5	205.0	230.3	424.5	596.8	527.8	500.6	415.4	413.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)