

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: P193194

Luminaire Tested: **GLEON-AF-06-LED-E1-T3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193194
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-06-LED-E1-T3-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 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: 34439.6 lumens
Efficiency: N/A
Efficacy: 103.4 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): 333
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



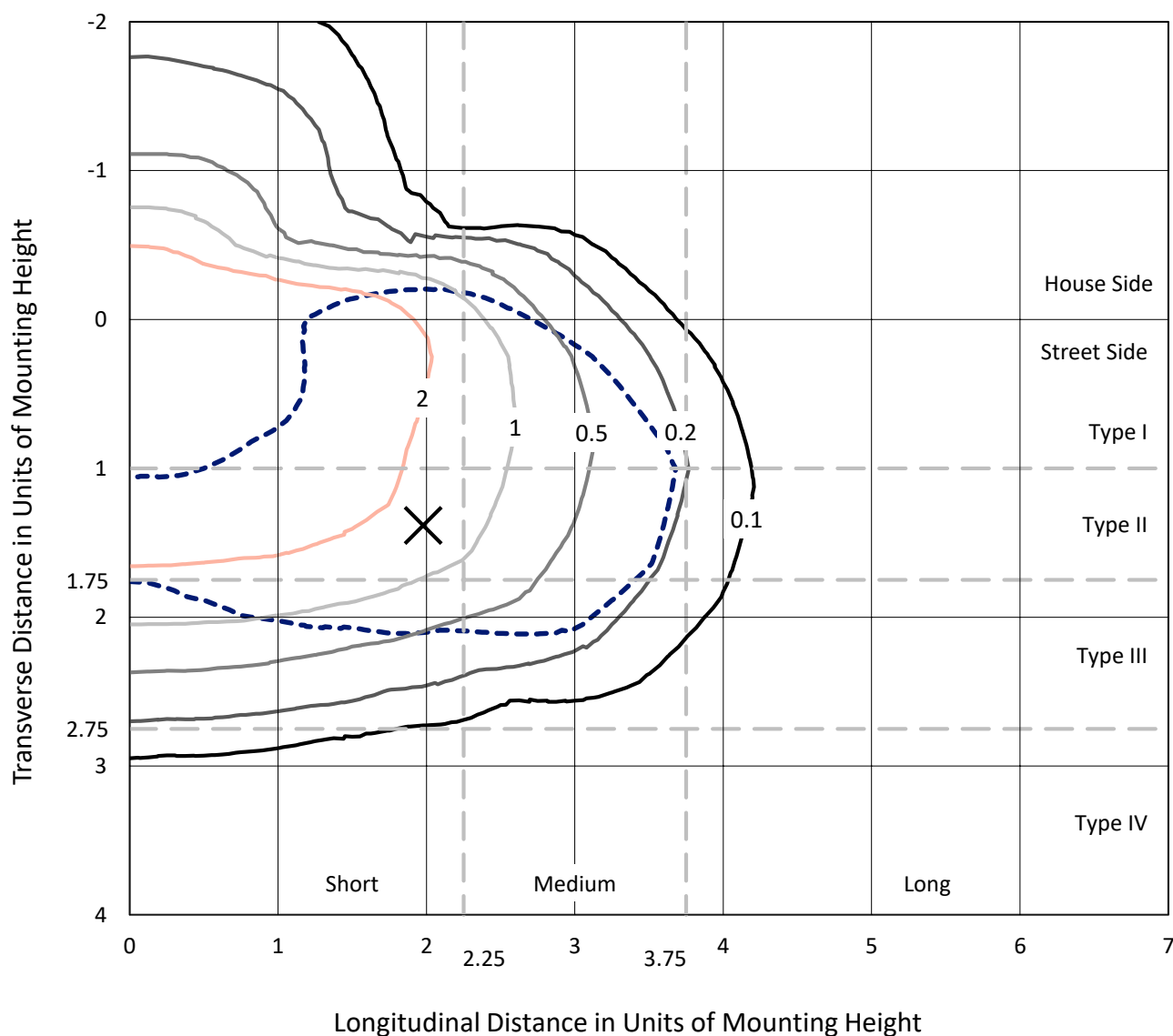
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

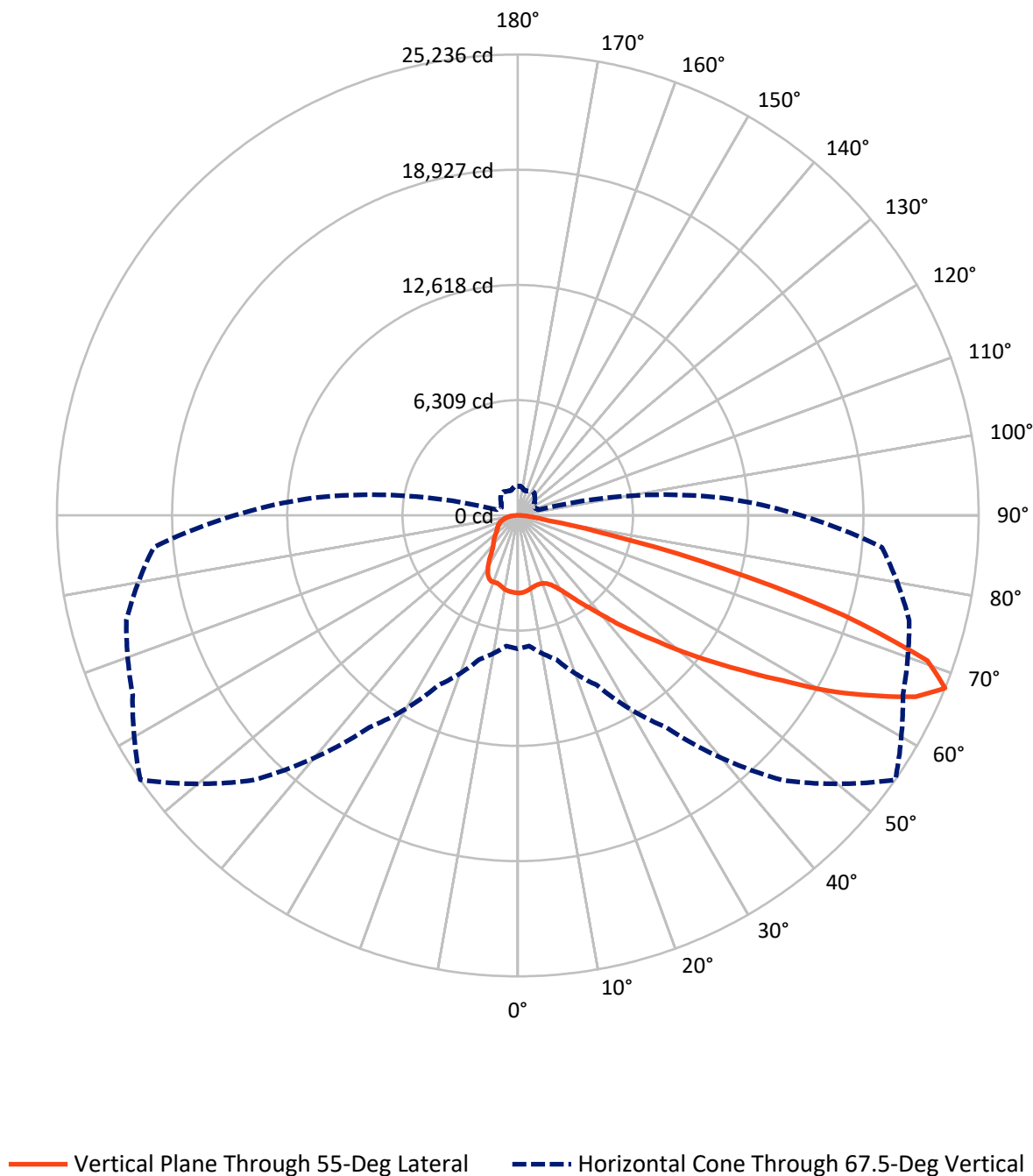


Based on 30 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7439.7	0.0	7439.7
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	26999.9	0.0	26999.9
	% Fixture	78.4	0.0	78.4
Total	Lumens	34439.6	0.0	34439.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.4	1.2
10°-20°	1122.6	3.3
20°-30°	1880.6	5.5
30°-40°	3092.5	9.0
40°-50°	5205.6	15.1
50°-60°	8193.2	23.8
60°-70°	9777.7	28.4
70°-80°	4198.7	12.2
80°-90°	572.5	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°	34439.6	100.0
0°-180°	34439.6	100.0

Coefficient of Utilization



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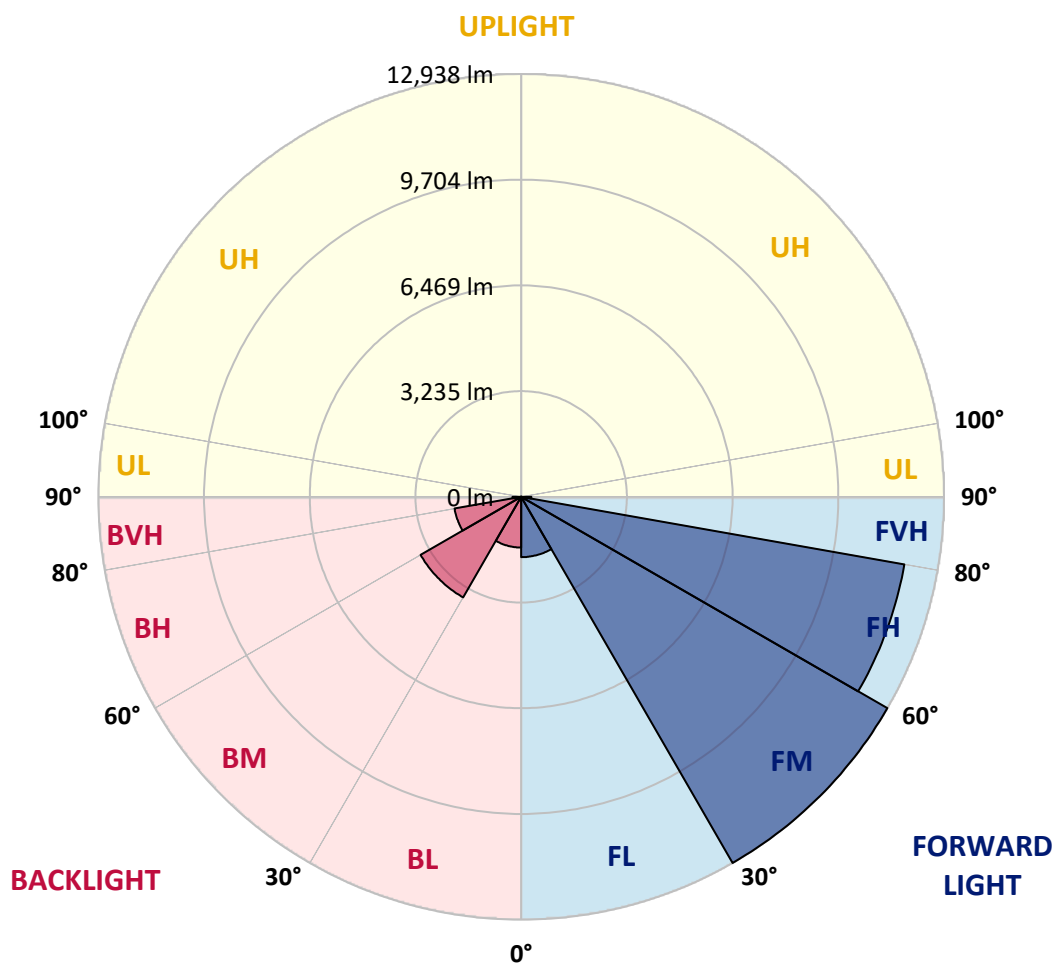
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1846.0	5.4			
FM	(30°-60°)	12938.1	37.6			
FH	(60°-80°)	11905.9	34.6			G4/12000
FVH	(80°-90°)	309.9	0.9			G3/500
BL	(0°-30°)	1553.6	4.5	B3/2500		
BM	(30°-60°)	3553.1	10.3	B3/5000		
BH	(60°-80°)	2070.4	6.0	B3/2500		G3/2500
BVH	(80°-90°)	262.6	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°	4246.8	4246.8	4246.8	4246.8	4246.8	4246.8	4246.8	4246.8	4246.8	4246.8	4246.8
2.5°	4210.2	4211.8	4215.2	4228.5	4240.2	4236.7	4238.5	4231.8	4230.2	4220.1	4230.2
5°	4157.0	4161.9	4163.7	4185.2	4198.5	4201.9	4196.8	4188.6	4178.6	4168.6	4173.6
7.5°	4035.5	4048.8	4050.5	4080.4	4102.0	4130.3	4131.9	4133.8	4128.7	4122.1	4131.9
10°	3959.0	3962.3	3960.6	3982.3	3998.9	4030.6	4048.8	4080.4	4093.7	4097.1	4103.8
12.5°	3954.0	3950.7	3945.7	3945.7	3940.7	3954.0	3987.3	4032.2	4063.8	4073.7	4082.2
15°	4007.2	4005.6	3988.9	3964.0	3932.3	3922.4	3950.7	4000.6	4042.1	4063.8	4072.1
17.5°	4127.0	4117.0	4090.4	4033.9	3965.7	3939.1	3942.4	3983.9	4032.2	4060.5	4068.9
20°	4346.6	4346.6	4290.1	4183.5	4062.2	3998.9	3969.0	3994.0	4040.5	4078.7	4090.4
22.5°	4725.9	4729.2	4634.3	4459.8	4255.1	4120.3	4045.6	4040.5	4095.4	4138.6	4152.0
25°	5263.1	5249.8	5116.7	4867.3	4556.2	4333.3	4203.5	4173.6	4220.1	4268.4	4285.0
27.5°	5888.6	5840.4	5682.3	5381.2	4978.7	4652.7	4453.1	4404.8	4449.7	4504.6	4521.2
30°	6507.4	6457.6	6269.6	5940.2	5492.7	5080.1	4794.1	4715.8	4779.1	4857.2	4867.3
32.5°	7126.2	7126.2	6916.6	6532.4	6045.0	5590.8	5248.2	5155.1	5259.8	5354.7	5376.2
35°	7866.4	7869.7	7666.8	7204.3	6680.4	6199.7	5822.1	5753.8	5911.9	5978.4	6030.0
37.5°	8776.4	8794.6	8533.4	7974.7	7400.6	6895.1	6445.9	6352.7	6510.8	6692.0	6858.4
40°	9759.5	9782.7	9494.9	8806.3	8232.3	7703.5	7217.6	7049.7	7312.5	7658.5	7873.1
42.5°	10697.6	10817.4	10539.5	9830.9	9213.9	8666.6	8174.2	7929.6	8259.0	8781.3	8967.7
45°	12053.4	12139.8	11655.8	11013.7	10433.1	9821.0	9168.9	8911.0	9371.8	10030.5	10068.9
47.5°	12956.6	12891.7	12645.5	12246.4	11878.6	11306.4	10325.0	10042.2	10654.4	11429.5	11214.9
50°	13437.4	13457.3	13424.0	13447.3	13460.6	13101.3	11742.3	11354.7	12084.9	13021.4	12527.4
52.5°	13886.5	13753.3	13863.2	14408.8	15067.5	14934.4	13284.3	12880.0	13618.6	14788.0	13914.7
55°	13876.5	13673.6	14031.2	14994.3	16423.2	16576.3	15015.9	14550.2	15240.5	16682.7	15385.3
57.5°	13385.8	13395.7	13946.3	15207.2	17368.1	18119.9	17025.5	16326.7	16960.6	18602.4	16727.6
60°	12710.3	12801.9	13595.3	15172.3	18124.9	19385.8	19490.6	18241.4	18645.5	20347.3	17838.8
62.5°	11620.9	11717.3	12811.8	14809.6	18010.2	20605.1	21719.6	20413.8	20407.1	21405.2	18164.8
65°	9902.5	9874.2	11023.7	13453.9	17046.9	21506.7	23933.7	22291.8	21734.6	21421.9	17509.5
67.5°	7302.6	7176.1	8162.5	10246.9	14169.3	20497.0	25236.1	23269.9	22187.1	20012.9	15506.6
70°	3789.3	3662.9	4461.4	5983.4	9318.6	15997.4	23793.9	22764.2	21187.3	16775.8	12148.1
72.5°	1620.2	1598.6	1923.0	2625.0	4507.9	9227.2	18657.2	19703.5	18179.8	12499.1	8352.3
75°	1089.6	1082.9	1204.4	1430.5	2027.8	3744.5	11675.8	13986.3	13300.9	7750.0	4697.6
77.5°	855.1	846.6	918.3	1028.0	1314.2	1477.1	5181.6	7508.9	6949.9	3373.5	2056.0
80°	668.6	662.0	707.0	766.9	944.9	931.6	1705.0	2987.5	2312.2	1292.5	999.7
82.5°	527.2	527.2	563.9	565.5	670.5	635.5	889.9	1315.8	1154.5	753.6	612.2
85°	482.4	482.4	520.6	422.5	437.5	400.9	552.3	780.1	731.9	309.4	266.1
87.5°	242.9	236.2	437.5	374.3	237.8	212.9	269.5	377.6	405.9	171.3	133.1
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°	4246.8	4246.8	4246.8	4246.8	4246.8	4246.8	4246.8	4246.8	4246.8	4246.8
2.5°	4226.8	4225.2	4228.5	4230.2	4243.4	4261.7	4270.1	4281.8	4288.3	4285.0
5°	4176.9	4180.3	4193.6	4203.5	4226.8	4256.7	4273.3	4286.7	4298.4	4293.4
7.5°	4135.4	4143.6	4163.7	4171.9	4185.2	4193.6	4191.8	4196.8	4206.8	4195.2
10°	4112.1	4122.1	4137.0	4125.3	4093.7	4048.8	4007.2	3985.7	3992.3	3983.9
12.5°	4088.7	4102.0	4090.4	4035.5	3947.3	3889.2	3857.5	3860.9	3875.9	3879.1
15°	4075.5	4080.4	4030.6	3927.5	3837.6	3829.2	3845.9	3842.5	3844.2	3844.2
17.5°	4075.5	4062.2	3969.0	3865.8	3827.6	3812.6	3761.0	3696.1	3668.0	3657.9
20°	4097.1	4062.2	3949.0	3880.8	3797.7	3669.6	3533.1	3413.4	3360.2	3345.2
22.5°	4161.9	4102.0	4005.6	3887.5	3651.2	3436.6	3220.4	3077.4	2980.9	2964.3
25°	4293.4	4226.8	4117.0	3799.3	3418.4	3112.4	2866.1	2706.5	2609.9	2596.6
27.5°	4522.9	4479.6	4176.9	3604.7	3109.0	2781.3	2553.4	2430.3	2358.8	2353.8
30°	4868.9	4847.3	4146.9	3316.9	2728.1	2460.2	2350.5	2278.9	2225.7	2224.1
32.5°	5421.2	5246.5	4048.8	2966.0	2380.4	2232.3	2187.5	2144.2	2102.5	2102.5
35°	6131.4	5569.3	3862.6	2590.0	2169.2	2106.0	2049.3	1981.2	1926.2	1923.0
37.5°	6966.5	5768.8	3528.2	2287.3	2069.4	2021.1	1937.9	1836.4	1740.0	1723.3
40°	7809.9	5828.8	3057.4	2100.9	2006.1	1936.3	1834.8	1715.1	1621.9	1616.8
42.5°	8583.4	5713.9	2558.5	1972.9	1942.9	1849.8	1743.3	1636.8	1563.6	1562.0
45°	9232.1	5416.2	2139.2	1851.4	1876.4	1771.5	1676.8	1590.3	1533.7	1522.1
47.5°	9842.6	4995.4	1844.8	1723.3	1809.9	1728.4	1648.5	1567.0	1512.0	1503.7
50°	10551.2	4541.3	1638.5	1598.6	1751.7	1713.4	1671.7	1586.9	1495.4	1485.5
52.5°	11409.6	4148.7	1477.1	1488.7	1706.7	1733.3	1731.6	1643.5	1483.7	1470.5
55°	12367.7	3712.8	1355.7	1398.9	1688.4	1769.9	1746.6	1696.7	1493.8	1473.8
57.5°	13310.9	3203.8	1270.9	1330.8	1661.9	1766.6	1675.1	1603.6	1517.1	1488.7
60°	14017.9	2520.2	1206.0	1270.9	1603.6	1711.6	1597.0	1502.1	1512.0	1490.4
62.5°	14064.4	1947.9	1127.8	1219.4	1515.4	1656.8	1545.4	1457.2	1533.7	1513.8
65°	13237.8	1472.2	1052.9	1157.7	1420.6	1621.9	1495.4	1432.3	1578.6	1557.0
67.5°	11145.1	1184.4	989.8	1094.6	1325.8	1548.6	1450.5	1408.9	1618.5	1580.3
70°	8046.1	1009.7	928.1	1018.1	1240.9	1465.5	1410.6	1367.4	1510.4	1450.5
72.5°	4953.7	874.9	858.3	916.5	1176.0	1379.0	1350.8	1289.1	1360.8	1312.4
75°	2473.5	758.5	780.1	816.7	1084.6	1280.8	1250.9	1189.4	1199.3	1189.4
77.5°	1184.4	648.8	688.7	717.0	966.5	1169.4	1137.8	1074.6	1063.0	1064.6
80°	750.2	542.3	580.5	600.5	863.3	1039.6	1008.0	944.9	1078.0	999.7
82.5°	469.0	440.9	450.8	487.4	751.9	904.8	863.3	806.8	971.5	768.5
85°	259.5	307.8	321.0	352.7	578.8	756.8	715.3	643.7	577.2	567.3
87.5°	154.7	183.0	187.9	211.3	389.3	547.3	484.0	459.1	380.9	379.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)