

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: P194017

Luminaire Tested: **GLEON-AF-09-LED-E1-T3R-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194017
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-09-LED-E1-T3R-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29252 lumens
Efficiency: N/A
Efficacy: 100.9 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 - G4

Input Watts (W): 290
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

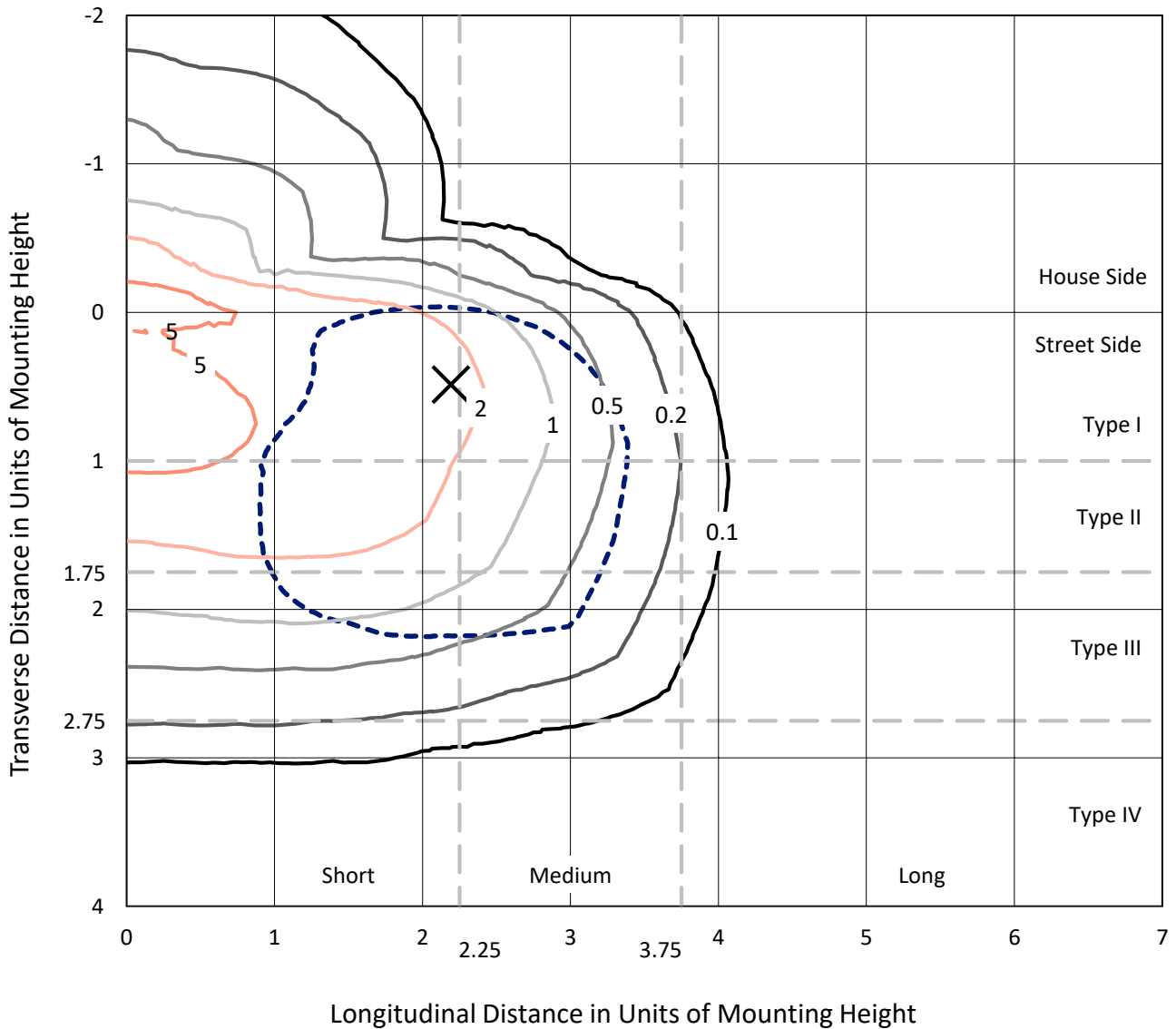


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

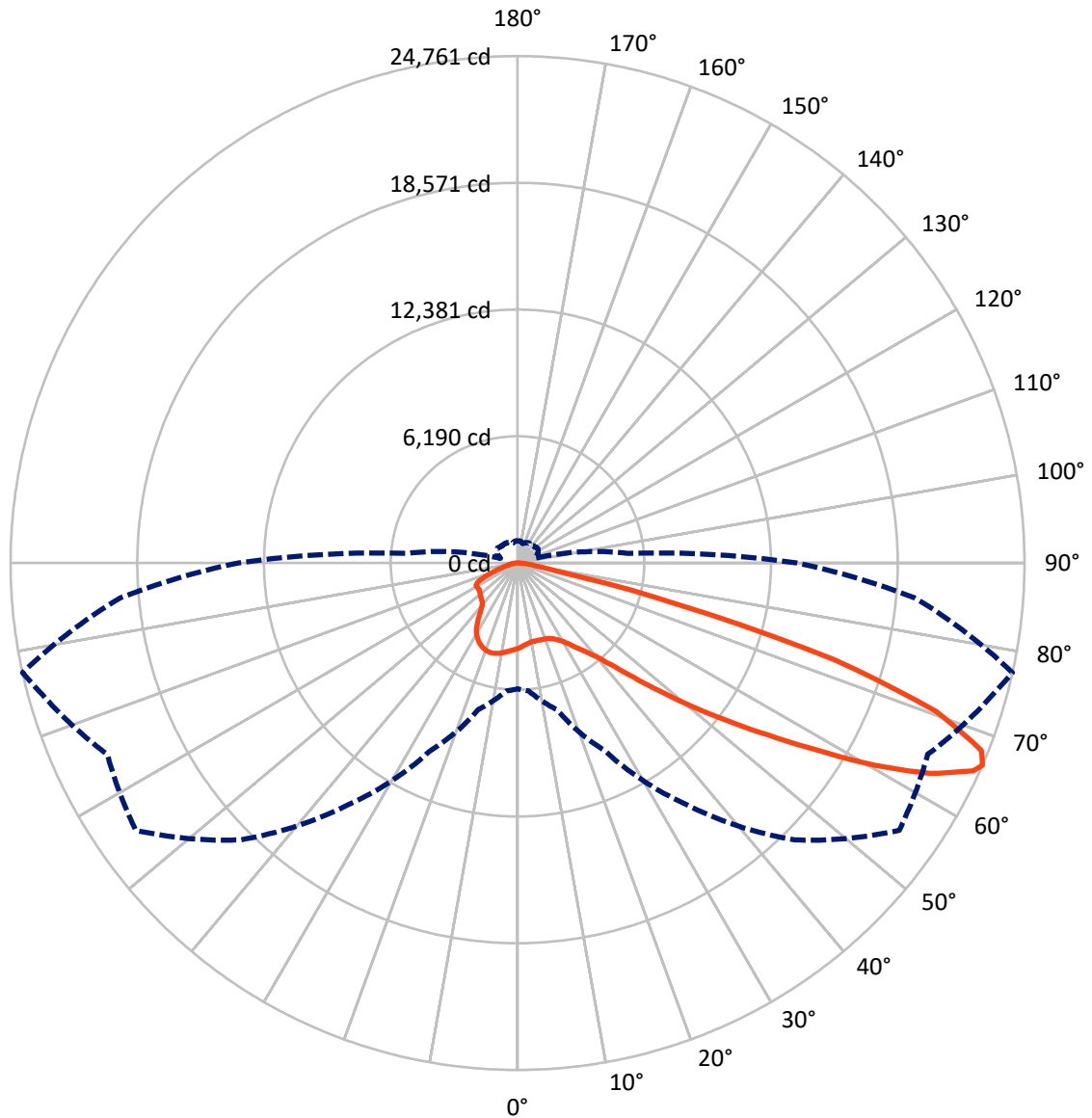


Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4997.5	0.0	4997.5
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	24254.5	0.0	24254.5
	% Fixture	82.9	0.0	82.9
Total	Lumens	29252.0	0.0	29252.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.4	1.3
10°-20°	1050.7	3.6
20°-30°	1793.1	6.1
30°-40°	2870.5	9.8
40°-50°	4434.6	15.2
50°-60°	6289.8	21.5
60°-70°	8414.1	28.8
70°-80°	3654.1	12.5
80°-90°	372.6	1.3
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°	29252.0	100.0
0°-180°	29252.0	100.0



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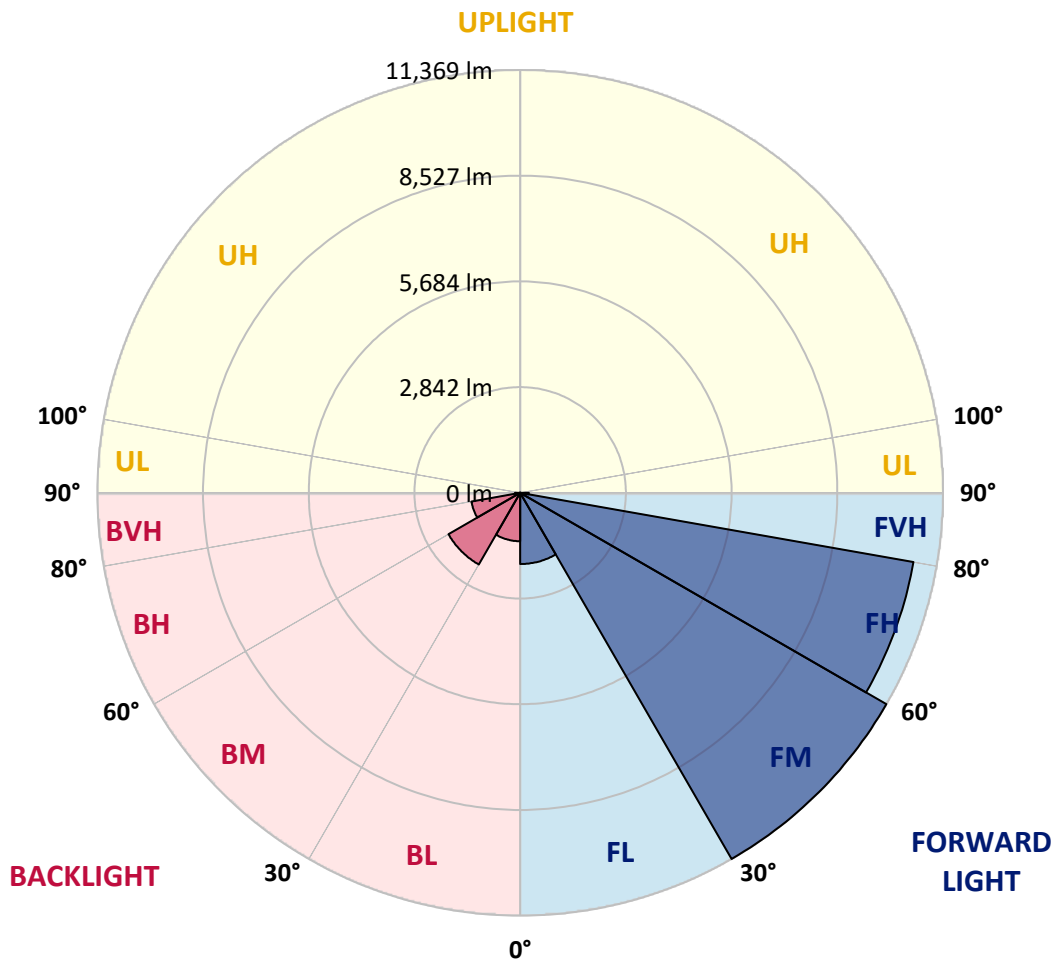
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1914.7	6.5			
FM	(30°-60°)	11368.9	38.9			
FH	(60°-80°)	10737.3	36.7			G4/12000
FVH	(80°-90°)	233.7	0.8			G3/500
BL	(0°-30°)	1301.6	4.4	B3/2500		
BM	(30°-60°)	2226.1	7.6	B2/2500		
BH	(60°-80°)	1330.9	4.5	B3/2500		G3/2500
BVH	(80°-90°)	138.9	0.5			G2/225
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°	77.5°	85°
0°	4168.5	4168.5	4168.5	4168.5	4168.5	4168.5	4168.5	4168.5	4168.5	4168.5	4168.5
2.5°	3687.6	3712.4	3733.2	3752.5	3791.2	3854.8	3928.1	3987.5	4073.2	4089.8	4135.4
5°	3348.9	3348.9	3365.5	3394.5	3447.1	3542.4	3642.0	3774.6	3961.2	4005.5	4127.1
7.5°	3184.5	3185.8	3195.5	3220.4	3266.0	3353.1	3462.3	3618.5	3871.4	3944.6	4152.0
10°	3245.3	3231.5	3210.7	3198.3	3205.2	3256.3	3360.0	3534.1	3816.1	3910.1	4207.2
12.5°	3585.3	3559.0	3487.2	3391.8	3300.6	3263.2	3324.1	3494.1	3792.6	3901.8	4280.5
15°	4140.9	4129.8	3995.8	3798.1	3577.0	3391.8	3350.3	3478.9	3795.4	3911.5	4367.6
17.5°	4837.5	4822.3	4645.4	4357.9	3997.2	3636.4	3442.9	3491.3	3805.0	3928.1	4451.9
20°	5541.0	5494.0	5303.3	4960.5	4497.5	3969.5	3596.3	3523.1	3817.5	3946.0	4540.3
22.5°	6066.2	6027.5	5856.1	5523.1	4989.5	4355.1	3802.3	3578.4	3857.6	3998.5	4649.5
25°	6527.9	6530.6	6360.6	6038.6	5487.1	4764.3	4067.7	3726.3	3959.8	4106.4	4798.8
27.5°	7098.7	7065.5	6906.6	6587.3	5979.2	5177.5	4388.3	3929.4	4111.9	4259.8	4995.1
30°	7781.5	7758.0	7574.2	7212.0	6525.1	5621.2	4754.6	4165.8	4308.1	4461.6	5252.2
32.5°	8584.5	8573.4	8382.7	7916.9	7155.4	6143.6	5184.4	4478.1	4601.2	4760.1	5621.2
35°	9527.1	9528.5	9303.2	8743.4	7845.1	6751.8	5672.3	4880.4	4957.8	5123.6	6060.7
37.5°	10107.6	10178.1	10093.8	9523.0	8626.0	7431.8	6305.3	5413.9	5364.1	5531.3	6532.0
40°	10232.0	10317.7	10584.5	10294.2	9499.5	8180.9	6866.5	5926.6	5864.4	6069.0	7138.8
42.5°	10057.9	10176.7	10740.6	10945.2	10426.9	9104.2	7621.1	6688.2	6609.4	6884.5	7893.4
45°	9954.2	10042.7	10695.0	11283.8	11231.3	10147.7	8581.7	7644.6	7615.6	7976.4	8764.2
47.5°	9774.5	9854.7	10482.2	11362.6	11704.0	11104.2	9735.8	8813.9	8870.6	9343.3	9746.9
50°	9871.3	9904.5	10244.5	11162.2	11840.8	11804.9	11025.4	10168.4	10361.9	10952.1	10859.5
52.5°	9857.5	9943.2	10216.8	10833.3	11858.8	12237.5	12295.6	11679.1	12086.9	12764.1	12093.8
55°	7969.4	8127.0	9892.0	10750.3	11922.4	12661.8	13426.2	13271.4	14031.5	14820.7	13487.0
57.5°	7610.1	7709.6	8688.2	10924.5	12259.6	13471.8	14683.9	15023.9	16295.5	17211.9	15184.2
60°	7539.6	7662.6	8675.7	11137.3	12943.8	14791.7	16548.4	17145.5	19050.1	20053.5	17152.4
62.5°	7319.8	7452.5	8594.2	11109.7	13915.4	16617.5	18935.4	19401.2	21662.4	22638.2	18798.6
65°	6623.2	6747.6	7929.4	10663.2	14570.6	18566.4	21760.5	21468.9	23724.5	24458.4	19619.5
66°	6146.4	6268.0	7405.5	10138.0	14418.5	19119.2	22761.2	22108.8	24186.2	24761.1	19459.2
67.5°	5274.3	5369.6	6388.3	8961.8	13610.0	19274.0	23602.9	22589.8	24234.5	24437.7	18542.9
70°	3332.4	3360.0	4152.0	6186.5	10302.5	16715.7	22321.6	21395.6	22235.9	21685.9	15545.0
72.5°	1445.7	1436.0	1993.1	3147.1	5832.7	11216.1	18056.3	17654.1	17442.7	16187.7	10881.6
75°	804.4	815.5	1035.2	1460.9	2370.4	5509.2	11811.8	11303.2	9543.7	8143.6	4934.3
77.5°	645.5	660.7	858.3	1036.6	1064.3	1921.2	5527.2	4497.5	2707.6	2172.7	1371.1
80°	510.0	537.7	749.1	807.2	717.3	792.0	1785.7	1427.8	1071.2	982.7	710.4
82.5°	403.6	422.9	642.7	610.9	501.7	533.5	855.5	833.4	696.6	634.4	410.5
85°	290.3	326.2	528.0	460.3	329.0	359.4	568.1	544.6	399.4	326.2	181.1
87.5°	118.9	154.8	373.2	305.5	183.8	167.2	283.3	266.8	189.4	138.2	89.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4168.5	4168.5	4168.5	4168.5	4168.5	4168.5	4168.5	4168.5	4168.5	4168.5	4168.5
2.5°	4164.4	4197.6	4240.4	4266.7	4280.5	4290.2	4305.4	4304.0	4308.1	4309.5	4315.1
5°	4192.0	4247.3	4309.5	4326.1	4326.1	4310.9	4295.7	4270.8	4261.2	4258.4	4261.2
7.5°	4263.9	4324.7	4378.6	4359.3	4317.8	4257.0	4178.2	4109.1	4071.8	4059.4	4056.6
10°	4355.1	4428.4	4450.5	4377.3	4255.6	4109.1	3952.9	3839.6	3774.6	3756.7	3751.1
12.5°	4465.7	4534.8	4504.4	4349.6	4124.3	3888.0	3672.4	3491.3	3355.8	3313.0	3310.2
15°	4587.3	4641.2	4534.8	4263.9	3928.1	3579.8	3195.5	2883.2	2714.5	2660.6	2656.5
17.5°	4700.7	4728.3	4516.8	4114.6	3639.2	3075.3	2565.3	2324.8	2266.7	2280.5	2283.3
20°	4797.4	4797.4	4456.0	3900.4	3184.5	2410.5	2088.4	2084.3	2125.7	2167.2	2175.5
22.5°	4903.9	4840.3	4349.6	3597.7	2540.4	1972.3	1925.3	1964.0	2011.0	2056.6	2063.5
25°	5035.2	4874.8	4201.7	3138.9	1997.2	1791.3	1809.2	1841.0	1864.5	1893.5	1897.7
27.5°	5181.7	4919.1	4006.8	2507.2	1733.2	1677.9	1691.7	1702.8	1700.0	1711.1	1713.9
30°	5357.2	4970.2	3740.1	1959.9	1624.0	1581.2	1556.3	1546.6	1546.6	1564.6	1571.5
32.5°	5592.2	5046.2	3357.2	1679.3	1571.5	1512.1	1431.9	1396.0	1409.8	1470.6	1484.4
35°	5850.6	5127.8	2838.9	1583.9	1560.4	1480.3	1355.9	1289.5	1290.9	1347.6	1365.6
37.5°	6132.6	5231.4	2270.9	1566.0	1585.3	1481.7	1315.8	1224.6	1187.3	1187.3	1194.2
40°	6493.3	5337.8	1838.3	1578.4	1637.8	1498.2	1295.1	1173.4	1068.4	1071.2	1076.7
42.5°	6963.2	5429.1	1606.1	1604.7	1701.4	1520.4	1293.7	1105.7	1014.5	1076.7	1133.4
45°	7485.7	5474.7	1503.8	1628.2	1752.6	1534.2	1271.6	1094.7	1021.4	1206.6	1314.4
47.5°	8086.9	5448.4	1447.1	1636.5	1765.0	1534.2	1246.7	1120.9	1069.8	1397.3	1523.1
50°	8746.2	5372.4	1391.8	1619.9	1760.9	1531.4	1270.2	1147.2	1087.7	1430.5	1517.6
52.5°	9521.6	5308.8	1333.8	1583.9	1731.8	1516.2	1297.8	1136.1	1031.1	1300.6	1361.4
55°	10406.2	5326.8	1268.8	1532.8	1686.2	1487.2	1288.2	1091.9	971.6	1145.8	1183.1
57.5°	11536.8	5541.0	1191.4	1467.8	1624.0	1438.8	1253.6	1071.2	953.7	1039.4	1061.5
60°	12798.7	5914.2	1094.7	1402.9	1546.6	1361.4	1227.3	1080.8	962.0	1031.1	1042.1
62.5°	13724.7	6131.2	1011.7	1307.5	1441.6	1275.7	1194.2	1093.3	984.1	1060.1	1057.3
65°	13976.2	5774.6	908.1	1167.9	1299.2	1185.9	1152.7	1107.1	993.8	1083.6	1071.2
66°	13623.8	5390.4	862.5	1103.0	1227.3	1141.7	1132.0	1105.7	989.6	1086.4	1065.6
67.5°	12768.3	4602.5	783.7	1007.6	1112.6	1075.3	1098.8	1093.3	978.6	1083.6	1054.6
70°	10413.1	3140.2	670.3	839.0	926.0	946.8	1035.2	1049.0	942.6	1035.2	971.6
72.5°	7275.6	1912.9	592.9	651.0	749.1	807.2	948.2	988.2	894.2	903.9	843.1
75°	3516.2	1015.9	537.7	504.5	581.9	674.5	843.1	905.3	818.2	756.0	733.9
77.5°	1096.0	620.6	456.1	406.4	456.1	544.6	704.9	793.4	728.4	633.0	624.7
80°	588.8	456.1	351.1	326.2	360.7	427.1	554.2	662.0	626.1	568.1	507.2
82.5°	388.4	295.8	259.8	252.9	275.0	326.2	411.9	548.7	548.7	486.5	353.8
85°	200.4	181.1	178.3	178.3	192.1	217.0	280.6	422.9	450.6	257.1	212.9
87.5°	99.5	103.7	96.8	100.9	107.8	106.4	134.1	212.9	254.3	156.2	129.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)