

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: P269670

Luminaire Tested: **GLEON-AF-09-LED-E1-T3R-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269670
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-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 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: 31145.4 lumens
Efficiency: N/A
Efficacy: 107.4 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 (A_{in}): 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

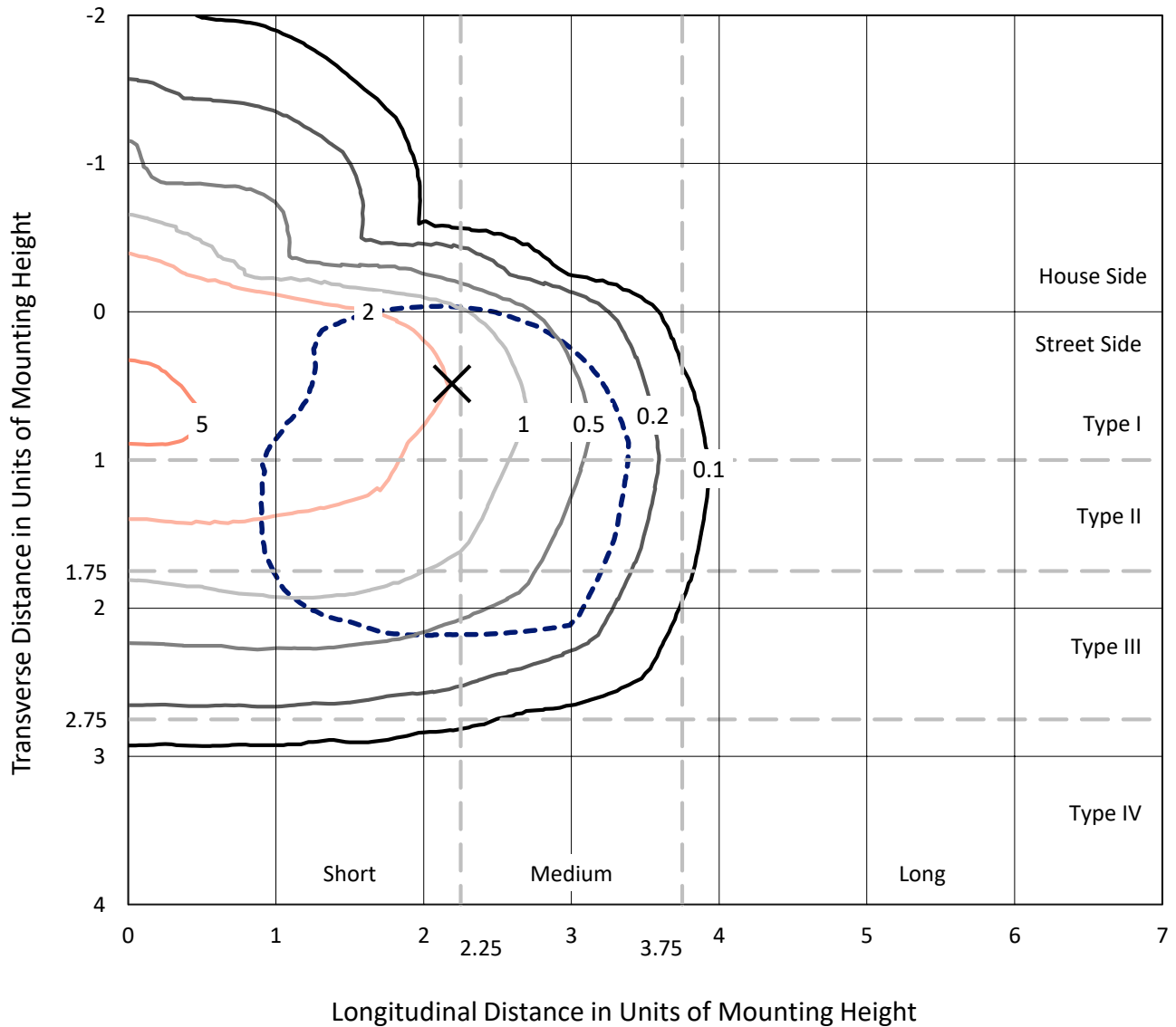


REPORT NUMBER: P269670

CATALOG NUMBER: GLEON-AF-09-LED-E1-T3R-7027-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

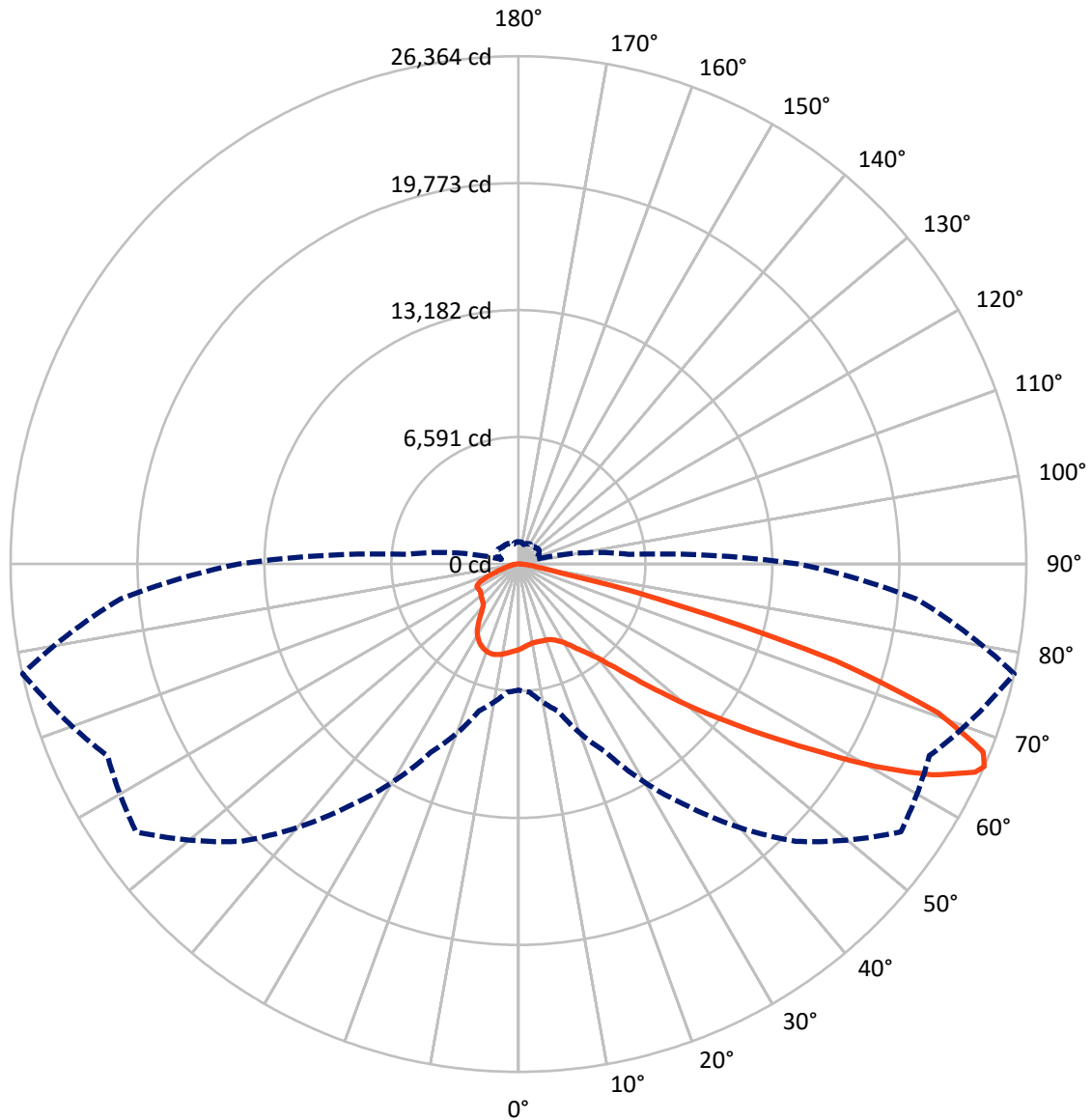


Based on 30 foot mounting height. Maximum calculated value = 6.1 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P269670

CATALOG NUMBER: GLEON-AF-09-LED-E1-T3R-7027-600

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GLEON-AF-09-LED-E1-T3R-7027-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5321.0	0.0	5321.0
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	25824.4	0.0	25824.4
	% Fixture	82.9	0.0	82.9
Total	Lumens	31145.4	0.0	31145.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.5	1.3
10°-20°	1118.7	3.6
20°-30°	1909.2	6.1
30°-40°	3056.3	9.8
40°-50°	4721.7	15.2
50°-60°	6697.0	21.5
60°-70°	8958.7	28.8
70°-80°	3890.6	12.5
80°-90°	396.7	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°	31145.4	100.0
0°-180°	31145.4	100.0



REPORT NUMBER: P269670

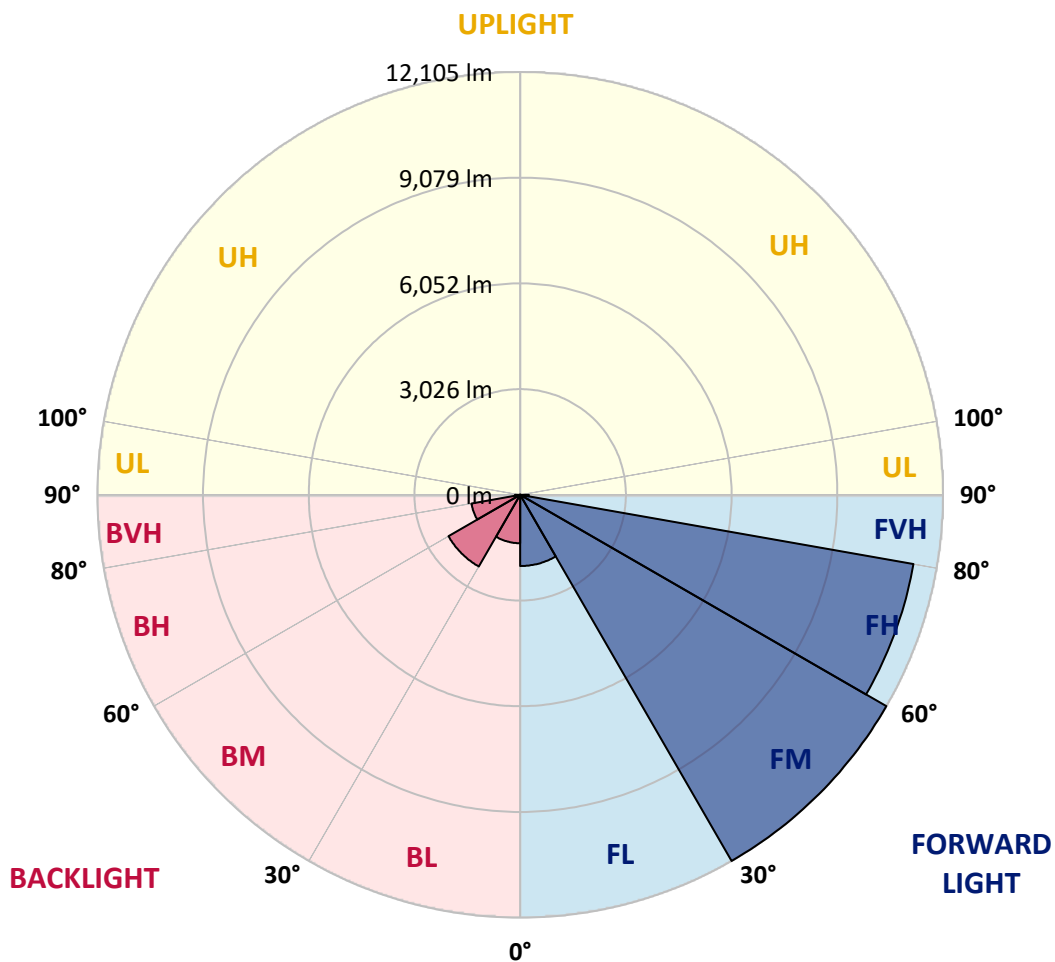
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2038.6	6.5			
FM	(30°-60°)	12104.7	38.9			
FH	(60°-80°)	11432.2	36.7			G4/12000
FVH	(80°-90°)	248.8	0.8			G3/500
BL	(0°-30°)	1385.8	4.4	B3/2500		
BM	(30°-60°)	2370.2	7.6	B2/2500		
BH	(60°-80°)	1417.1	4.5	B3/2500		G3/2500
BVH	(80°-90°)	147.9	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





REPORT NUMBER: P269670

CATALOG NUMBER: GLEON-AF-09-LED-E1-T3R-7027-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	4438.3	4438.3	4438.3	4438.3	4438.3	4438.3	4438.3	4438.3	4438.3	4438.3	4438.3
2.5°	3926.2	3952.7	3974.8	3995.4	4036.7	4104.3	4182.2	4245.6	4336.7	4354.4	4403.0
5°	3565.7	3565.7	3583.3	3614.3	3670.1	3771.8	3877.7	4018.9	4217.6	4264.8	4394.1
7.5°	3390.7	3392.1	3402.3	3428.8	3477.3	3570.1	3686.4	3852.7	4122.0	4199.9	4420.6
10°	3455.3	3440.6	3418.5	3405.2	3412.7	3467.1	3577.5	3762.9	4063.2	4163.1	4479.6
12.5°	3817.3	3789.4	3712.9	3611.4	3514.2	3474.5	3539.2	3720.2	4038.2	4154.3	4557.6
15°	4408.9	4397.2	4254.5	4044.0	3808.5	3611.4	3567.2	3704.0	4041.0	4164.6	4650.3
17.5°	5150.6	5134.4	4946.1	4639.9	4255.9	3871.8	3665.8	3717.2	4051.4	4182.2	4740.0
20°	5899.7	5849.7	5646.6	5281.6	4788.7	4226.4	3829.1	3751.1	4064.7	4201.5	4834.1
22.5°	6458.9	6417.8	6235.1	5880.6	5312.4	4637.1	4048.4	3810.0	4107.2	4257.3	4950.5
25°	6950.4	6953.3	6772.3	6429.4	5842.2	5072.5	4330.9	3967.5	4216.1	4372.1	5109.4
27.5°	7558.2	7522.9	7353.6	7013.6	6366.2	5512.5	4672.4	4183.8	4378.0	4535.5	5318.3
30°	8285.2	8260.2	8064.4	7678.8	6947.4	5985.0	5062.3	4435.4	4586.9	4750.3	5592.0
32.5°	9140.2	9128.3	8925.3	8429.3	7618.4	6541.3	5519.9	4768.1	4898.9	5068.1	5985.0
35°	10143.8	10145.3	9905.4	9309.3	8352.8	7188.7	6039.5	5196.2	5278.6	5455.2	6453.0
37.5°	10761.9	10837.0	10747.1	10139.3	9184.4	7912.8	6713.5	5764.2	5711.3	5889.4	6954.8
40°	10894.3	10985.6	11269.5	10960.5	10114.3	8710.4	7310.9	6310.2	6243.9	6461.8	7600.9
42.5°	10708.9	10835.4	11435.9	11653.6	11101.9	9693.5	8114.4	7121.1	7037.2	7330.1	8404.4
45°	10598.6	10692.6	11387.3	12014.2	11958.2	10804.5	9137.2	8139.5	8108.6	8492.7	9331.5
47.5°	10407.3	10492.6	11160.6	12098.1	12461.6	11822.9	10366.0	9384.5	9444.8	9948.0	10377.8
50°	10510.2	10545.6	10907.5	11884.7	12607.3	12568.9	11739.1	10826.6	11032.7	11661.0	11562.4
52.5°	10495.4	10586.7	10878.1	11534.4	12626.3	13029.6	13091.4	12435.1	12869.2	13590.3	12876.6
55°	8485.3	8653.1	10532.3	11446.2	12694.0	13481.4	14295.2	14130.3	14939.7	15780.0	14359.9
57.5°	8102.6	8208.6	9250.4	11631.6	13053.1	14343.7	15634.3	15996.4	17350.3	18326.0	16167.1
60°	8027.7	8158.5	9237.4	11858.2	13781.5	15749.2	17619.5	18255.3	20283.1	21351.5	18262.6
62.5°	7793.6	7934.9	9150.5	11828.7	14816.1	17693.0	20161.0	20657.0	23064.4	24103.4	20015.2
65°	7052.0	7184.4	8442.6	11353.4	15513.6	19768.1	23168.9	22858.5	25260.1	26041.5	20889.5
66°	6544.2	6673.7	7884.9	10794.3	15351.8	20356.8	24234.4	23539.7	25751.6	26363.7	20718.7
67.5°	5615.7	5717.3	6801.7	9541.8	14490.9	20521.5	25130.7	24051.8	25803.2	26019.4	19743.0
70°	3548.0	3577.5	4420.6	6586.9	10969.4	17797.6	23766.4	22780.5	23675.2	23089.5	16551.1
72.5°	1539.2	1528.9	2122.1	3350.9	6210.2	11942.1	19225.0	18796.9	18571.6	17235.4	11585.9
75°	856.4	868.2	1102.2	1555.4	2523.8	5865.8	12576.4	12034.9	10161.4	8670.7	5253.6
77.5°	687.3	703.5	913.8	1103.7	1133.1	2045.5	5884.9	4788.7	2882.9	2313.3	1459.8
80°	543.0	572.5	797.7	859.4	763.7	843.1	1901.4	1520.2	1140.5	1046.3	756.5
82.5°	429.7	450.3	684.2	650.5	534.2	568.1	910.9	887.3	741.7	675.4	437.0
85°	309.0	347.4	562.2	490.0	350.2	382.6	604.7	579.9	425.3	347.4	192.7
87.5°	126.5	164.7	397.3	325.2	195.7	178.0	301.7	284.0	201.6	147.1	95.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P269670

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4438.3	4438.3	4438.3	4438.3	4438.3	4438.3	4438.3	4438.3	4438.3	4438.3	4438.3
2.5°	4433.9	4469.2	4514.9	4542.9	4557.6	4567.8	4584.1	4582.6	4586.9	4588.5	4594.3
5°	4463.4	4522.2	4588.5	4606.1	4606.1	4589.9	4573.7	4547.3	4537.0	4534.0	4537.0
7.5°	4539.9	4604.6	4662.1	4641.5	4597.3	4532.6	4448.6	4375.0	4335.3	4322.1	4319.2
10°	4637.1	4715.1	4738.6	4660.5	4531.1	4375.0	4208.7	4088.1	4018.9	3999.9	3994.0
12.5°	4754.8	4828.3	4796.1	4631.1	4391.3	4139.6	3910.1	3717.2	3573.1	3527.5	3524.5
15°	4884.3	4941.7	4828.3	4539.9	4182.2	3811.5	3402.3	3069.8	2890.2	2832.8	2828.5
17.5°	5004.9	5034.3	4809.2	4380.9	3874.7	3274.3	2731.2	2475.2	2413.4	2428.2	2431.2
20°	5107.9	5107.9	4744.5	4152.9	3390.7	2566.5	2223.6	2219.3	2263.3	2307.4	2316.3
22.5°	5221.3	5153.5	4631.1	3830.6	2704.7	2100.0	2049.9	2091.2	2141.2	2189.8	2197.2
25°	5361.1	5190.3	4473.6	3342.1	2126.5	1907.2	1926.3	1960.2	1985.3	2016.1	2020.5
27.5°	5517.0	5237.5	4266.2	2669.6	1845.4	1786.5	1801.2	1813.0	1810.1	1821.9	1824.7
30°	5704.0	5291.8	3982.1	2086.8	1729.1	1683.6	1657.1	1646.8	1646.8	1665.8	1673.3
32.5°	5954.1	5372.9	3574.5	1787.9	1673.3	1609.9	1524.6	1486.3	1501.1	1565.7	1580.5
35°	6229.2	5459.7	3022.6	1686.5	1661.4	1576.0	1443.7	1373.0	1374.4	1434.9	1453.9
37.5°	6529.5	5570.0	2417.9	1667.3	1687.9	1577.6	1400.9	1303.8	1264.2	1264.2	1271.6
40°	6913.5	5683.3	1957.2	1680.5	1743.9	1595.2	1378.9	1249.5	1137.6	1140.5	1146.3
42.5°	7413.9	5780.5	1710.1	1708.5	1811.5	1618.7	1377.5	1177.3	1080.1	1146.3	1206.8
45°	7970.2	5829.0	1601.0	1733.5	1866.0	1633.5	1353.8	1165.6	1087.5	1284.8	1399.5
47.5°	8610.3	5801.1	1540.8	1742.4	1879.3	1633.5	1327.3	1193.5	1139.1	1487.9	1621.7
50°	9312.3	5720.1	1481.9	1724.7	1874.9	1630.6	1352.4	1221.4	1158.2	1523.0	1615.8
52.5°	10137.9	5652.4	1420.1	1686.5	1844.0	1614.3	1381.9	1209.7	1097.8	1384.7	1449.5
55°	11079.8	5671.5	1351.0	1632.0	1795.4	1583.4	1371.5	1162.5	1034.6	1220.0	1259.8
57.5°	12283.6	5899.7	1268.5	1562.8	1729.1	1531.9	1334.7	1140.5	1015.4	1106.6	1130.2
60°	13627.1	6296.9	1165.6	1493.7	1646.8	1449.5	1306.8	1150.8	1024.2	1097.8	1109.5
62.5°	14613.1	6528.1	1077.2	1392.2	1534.8	1358.2	1271.6	1164.1	1047.9	1128.7	1125.8
65°	14880.9	6148.4	966.8	1243.6	1383.3	1262.7	1227.4	1178.8	1058.1	1153.8	1140.5
66°	14505.7	5739.2	918.2	1174.4	1306.8	1215.5	1205.3	1177.3	1053.6	1156.7	1134.6
67.5°	13594.7	4900.4	834.3	1072.8	1184.7	1144.9	1170.0	1164.1	1041.9	1153.8	1122.8
70°	11087.2	3343.5	713.8	893.3	986.0	1008.1	1102.2	1117.0	1003.6	1102.2	1034.6
72.5°	7746.5	2036.6	631.2	693.1	797.7	859.4	1009.5	1052.3	952.2	962.4	897.6
75°	3743.7	1081.6	572.5	537.1	619.6	718.1	897.6	963.9	871.1	805.1	781.4
77.5°	1167.0	660.8	485.7	432.7	485.7	579.9	750.5	844.6	775.5	674.0	665.1
80°	626.8	485.7	373.8	347.4	384.0	454.7	590.0	704.9	666.6	604.7	540.2
82.5°	413.5	314.9	276.7	269.3	292.8	347.4	438.6	584.3	584.3	518.1	376.7
85°	213.3	192.7	189.8	189.8	204.5	231.0	298.7	450.3	479.8	273.8	226.6
87.5°	106.0	110.4	103.0	107.4	114.9	113.4	142.7	226.6	270.7	166.2	138.2
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)