

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: P194815

Luminaire Tested: **GLEON-AF-07-LED-E1-T3R-7060-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194815
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-07-LED-E1-T3R-7060-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 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: 28363 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 226
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



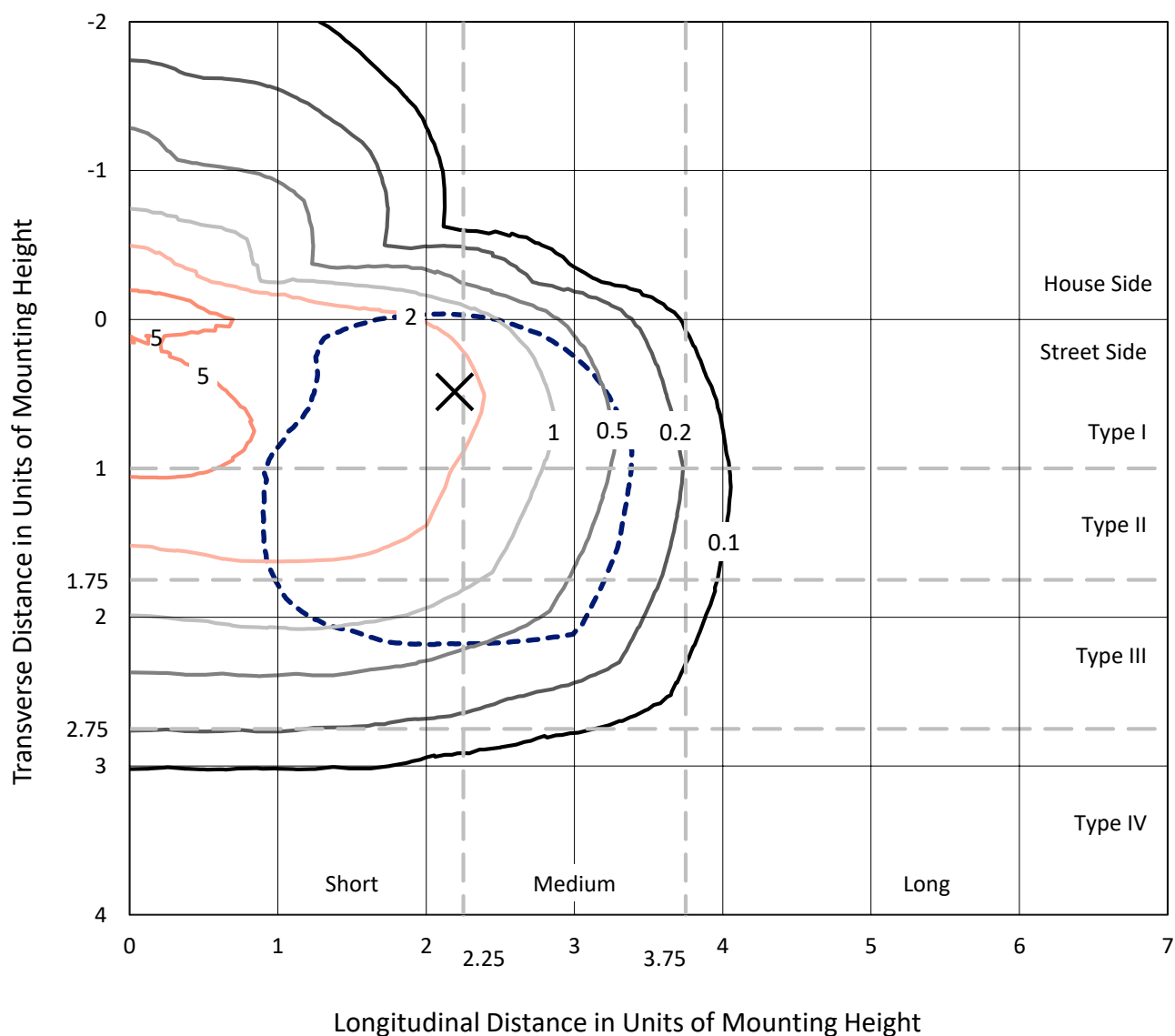
REPORT NUMBER: P194815

CATALOG NUMBER: GLEON-AF-07-LED-E1-T3R-7060-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

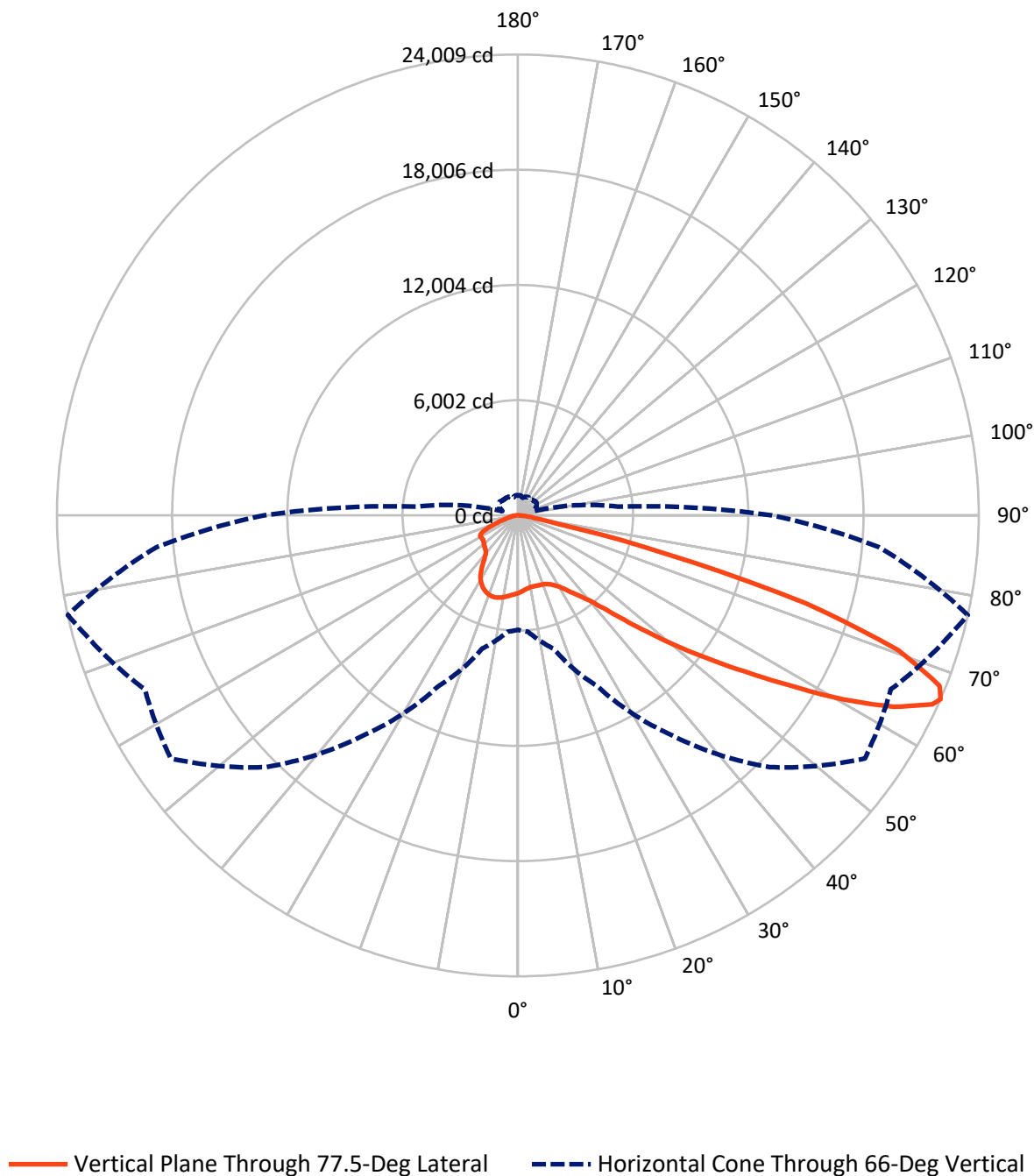


Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P194815

CATALOG NUMBER: GLEON-AF-07-LED-E1-T3R-7060-600

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4845.6	0.0	4845.6
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	23517.4	0.0	23517.4
	% Fixture	82.9	0.0	82.9
Total	Lumens	28363.0	0.0	28363.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.1	1.3
10°-20°	1018.7	3.6
20°-30°	1738.6	6.1
30°-40°	2783.2	9.8
40°-50°	4299.9	15.2
50°-60°	6098.7	21.5
60°-70°	8158.4	28.8
70°-80°	3543.0	12.5
80°-90°	361.3	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°	28363.0	100.0
0°-180°	28363.0	100.0

Coefficient of Utilization



REPORT NUMBER: P194815

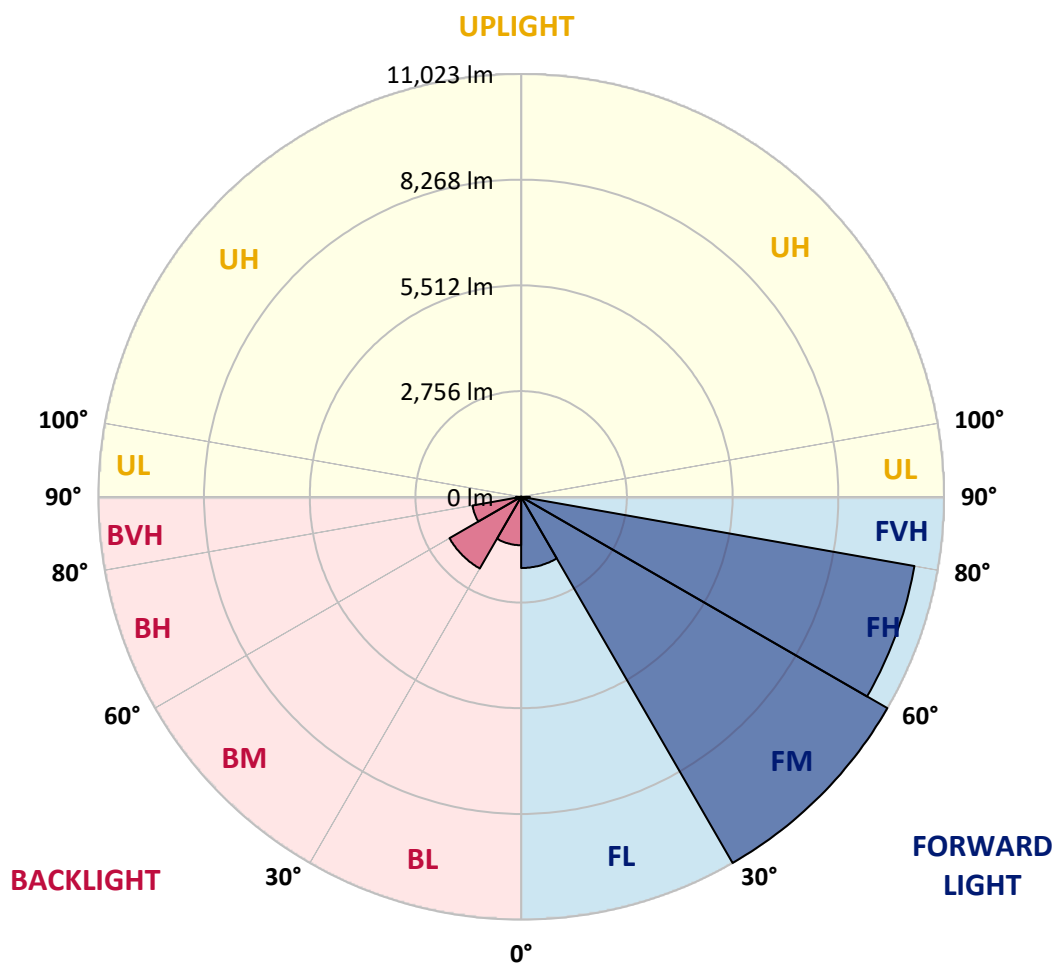
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1856.5	6.5			
FM	(30°-60°)	11023.3	38.9			
FH	(60°-80°)	10410.9	36.7			G4/12000
FVH	(80°-90°)	226.6	0.8			G3/500
BL	(0°-30°)	1262.0	4.4	B3/2500		
BM	(30°-60°)	2158.5	7.6	B2/2500		
BH	(60°-80°)	1290.5	4.5	B3/2500		G3/2500
BVH	(80°-90°)	134.7	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: P194815

CATALOG NUMBER: GLEON-AF-07-LED-E1-T3R-7060-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	4041.9	4041.9	4041.9	4041.9	4041.9	4041.9	4041.9	4041.9	4041.9	4041.9	4041.9
2.5°	3575.5	3599.6	3619.7	3638.5	3676.0	3737.7	3808.7	3866.3	3949.4	3965.5	4009.7
5°	3247.2	3247.2	3263.2	3291.4	3342.3	3434.8	3531.3	3659.9	3840.8	3883.7	4001.7
7.5°	3087.7	3089.0	3098.4	3122.5	3166.8	3251.2	3357.1	3508.5	3753.7	3824.8	4025.8
10°	3146.6	3133.2	3113.1	3101.1	3107.8	3157.4	3257.9	3426.7	3700.1	3791.3	4079.4
12.5°	3476.3	3450.9	3381.2	3288.7	3200.3	3164.1	3223.0	3387.9	3677.3	3783.2	4150.4
15°	4015.1	4004.3	3874.3	3682.7	3468.3	3288.7	3248.5	3373.1	3680.0	3792.6	4234.8
17.5°	4690.5	4675.7	4504.2	4225.5	3875.7	3525.9	3338.3	3385.2	3689.4	3808.7	4316.6
20°	5372.6	5327.1	5142.1	4809.8	4360.8	3848.9	3487.0	3416.0	3701.5	3826.1	4402.4
22.5°	5881.9	5844.4	5678.2	5355.2	4837.9	4222.8	3686.7	3469.6	3740.3	3877.0	4508.2
25°	6329.5	6332.2	6167.3	5855.1	5320.4	4619.5	3944.0	3613.0	3839.5	3981.6	4653.0
27.5°	6883.0	6850.8	6696.7	6387.1	5797.4	5020.2	4254.9	3810.0	3986.9	4130.3	4843.3
30°	7545.0	7522.2	7344.0	6992.9	6326.8	5450.3	4610.1	4039.2	4177.2	4326.0	5092.5
32.5°	8323.6	8312.9	8127.9	7676.3	6937.9	5956.9	5026.9	4342.1	4461.3	4615.4	5450.3
35°	9237.6	9238.9	9020.5	8477.7	7606.6	6546.6	5499.9	4732.0	4807.1	4967.9	5876.5
37.5°	9800.4	9868.8	9787.0	9233.6	8363.8	7205.9	6113.7	5249.3	5201.1	5363.2	6333.5
40°	9921.1	10004.1	10262.8	9981.4	9210.8	7932.3	6657.8	5746.5	5686.2	5884.6	6921.8
42.5°	9752.2	9867.5	10414.2	10612.6	10110.0	8827.5	7389.5	6484.9	6408.5	6675.2	7653.5
45°	9651.7	9737.5	10370.0	10940.9	10890.0	9839.3	8320.9	7412.3	7384.2	7733.9	8497.8
47.5°	9477.5	9555.2	10163.6	11017.3	11348.3	10766.7	9439.9	8546.1	8601.0	9059.3	9450.7
50°	9571.3	9603.4	9933.1	10823.0	11481.0	11446.1	10690.3	9859.4	10047.0	10619.3	10529.5
52.5°	9557.9	9641.0	9906.3	10504.0	11498.4	11865.6	11921.9	11324.2	11719.5	12376.2	11726.2
55°	7727.2	7880.0	9591.4	10423.6	11560.0	12277.0	13018.1	12868.0	13605.1	14370.3	13077.1
57.5°	7378.8	7475.3	8424.1	10592.5	11887.0	13062.3	14237.6	14567.3	15800.3	16688.8	14722.8
60°	7310.5	7429.7	8412.1	10798.8	12550.4	14342.2	16045.5	16624.4	18471.1	19444.1	16631.1
62.5°	7097.4	7226.0	8333.0	10772.0	13492.5	16112.5	18359.9	18811.5	21004.0	21950.2	18227.2
65°	6422.0	6542.6	7688.4	10339.2	14127.8	18002.1	21099.2	20816.4	23003.5	23715.1	19023.3
66°	5959.6	6077.5	7180.5	9829.9	13980.3	18538.2	22069.4	21436.9	23451.1	24008.6	18867.8
67.5°	5114.0	5206.4	6194.1	8689.5	13196.4	18688.3	22885.6	21903.2	23498.0	23695.0	17979.3
70°	3231.1	3257.9	4025.8	5998.5	9989.4	16207.7	21643.3	20745.4	21560.2	21026.8	15072.6
72.5°	1401.8	1392.4	1932.5	3051.5	5655.4	10875.2	17507.6	17117.6	16912.6	15695.7	10550.9
75°	780.0	790.7	1003.8	1416.5	2298.3	5341.8	11452.8	10959.7	9253.7	7896.1	4784.3
77.5°	625.8	640.6	832.2	1005.1	1031.9	1862.8	5359.2	4360.8	2625.3	2106.7	1329.4
80°	494.5	521.3	726.4	782.6	695.5	767.9	1731.5	1384.4	1038.6	952.8	688.8
82.5°	391.3	410.1	623.2	592.3	486.5	517.3	829.5	808.1	675.4	615.1	398.0
85°	281.4	316.3	511.9	446.3	319.0	348.4	550.8	528.0	387.3	316.3	175.6
87.5°	115.3	150.1	361.8	296.2	178.2	162.2	274.7	258.6	183.6	134.0	87.1
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: P194815

CATALOG NUMBER: GLEON-AF-07-LED-E1-T3R-7060-600

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4041.9	4041.9	4041.9	4041.9	4041.9	4041.9	4041.9	4041.9	4041.9	4041.9	4041.9
2.5°	4037.8	4070.0	4111.5	4137.0	4150.4	4159.8	4174.5	4173.2	4177.2	4178.6	4183.9
5°	4064.6	4118.3	4178.6	4194.6	4194.6	4179.9	4165.2	4141.0	4131.7	4129.0	4131.7
7.5°	4134.3	4193.3	4245.6	4226.8	4186.6	4127.6	4051.2	3984.2	3948.1	3936.0	3933.3
10°	4222.8	4293.8	4315.3	4244.2	4126.3	3984.2	3832.8	3722.9	3659.9	3642.5	3637.1
12.5°	4330.0	4397.0	4367.5	4217.4	3999.0	3769.8	3560.8	3385.2	3253.9	3212.3	3209.6
15°	4447.9	4500.2	4397.0	4134.3	3808.7	3471.0	3098.4	2795.5	2632.0	2579.8	2575.7
17.5°	4557.8	4584.6	4379.6	3989.6	3528.6	2981.8	2487.3	2254.1	2197.8	2211.2	2213.9
20°	4651.6	4651.6	4320.6	3781.9	3087.7	2337.2	2025.0	2020.9	2061.1	2101.3	2109.4
22.5°	4754.8	4693.2	4217.4	3488.4	2463.2	1912.4	1866.8	1904.3	1949.9	1994.1	2000.8
25°	4882.1	4726.7	4074.0	3043.5	1936.5	1736.8	1754.2	1785.1	1807.8	1836.0	1840.0
27.5°	5024.2	4769.6	3885.1	2431.0	1680.5	1626.9	1640.3	1651.1	1648.4	1659.1	1661.8
30°	5194.4	4819.1	3626.4	1900.3	1574.7	1533.1	1509.0	1499.6	1499.6	1517.0	1523.7
32.5°	5422.2	4892.9	3255.2	1628.3	1523.7	1466.1	1388.4	1353.5	1366.9	1425.9	1439.3
35°	5672.8	4971.9	2752.6	1535.8	1513.0	1435.3	1314.7	1250.4	1251.7	1306.6	1324.1
37.5°	5946.2	5072.4	2201.9	1518.4	1537.1	1436.6	1275.8	1187.4	1151.2	1151.2	1157.9
40°	6296.0	5175.6	1782.4	1530.4	1588.1	1452.7	1255.7	1137.8	1035.9	1038.6	1044.0
42.5°	6751.6	5264.1	1557.2	1555.9	1649.7	1474.2	1254.4	1072.1	983.7	1044.0	1098.9
45°	7258.2	5308.3	1458.1	1578.7	1699.3	1487.6	1232.9	1061.4	990.4	1169.9	1274.5
47.5°	7841.2	5282.8	1403.1	1586.7	1711.4	1487.6	1208.8	1086.9	1037.3	1354.9	1476.8
50°	8480.4	5209.1	1349.5	1570.6	1707.3	1484.9	1231.6	1112.3	1054.7	1387.0	1471.5
52.5°	9232.2	5147.5	1293.2	1535.8	1679.2	1470.1	1258.4	1101.6	999.7	1261.1	1320.0
55°	10089.9	5164.9	1230.2	1486.2	1635.0	1442.0	1249.0	1058.7	942.1	1111.0	1147.2
57.5°	11186.1	5372.6	1155.2	1423.2	1574.7	1395.1	1215.5	1038.6	924.7	1007.8	1029.2
60°	12409.7	5734.5	1061.4	1360.2	1499.6	1320.0	1190.0	1048.0	932.7	999.7	1010.5
62.5°	13307.6	5944.9	981.0	1267.8	1397.8	1236.9	1157.9	1060.1	954.2	1027.9	1025.2
65°	13551.5	5599.1	880.5	1132.4	1259.7	1149.8	1117.7	1073.5	963.6	1050.7	1038.6
66°	13209.8	5226.5	836.2	1069.4	1190.0	1107.0	1097.6	1072.1	959.5	1053.4	1033.2
67.5°	12380.2	4462.7	759.9	977.0	1078.8	1042.6	1065.4	1060.1	948.8	1050.7	1022.5
70°	10096.6	3044.8	650.0	813.5	897.9	918.0	1003.8	1017.2	914.0	1003.8	942.1
72.5°	7054.5	1854.8	574.9	631.2	726.4	782.6	919.3	958.2	867.1	876.5	817.5
75°	3409.3	985.0	521.3	489.2	564.2	654.0	817.5	877.8	793.4	733.1	711.6
77.5°	1062.7	601.7	442.2	394.0	442.2	528.0	683.5	769.2	706.3	613.8	605.7
80°	570.9	442.2	340.4	316.3	349.8	414.1	537.4	641.9	607.1	550.8	491.8
82.5°	376.6	286.8	251.9	245.2	266.7	316.3	399.4	532.0	532.0	471.7	343.1
85°	194.3	175.6	172.9	172.9	186.3	210.4	272.0	410.1	436.9	249.3	206.4
87.5°	96.5	100.5	93.8	97.8	104.5	103.2	130.0	206.4	246.6	151.4	126.0
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)