

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: P194447

Luminaire Tested: **GLEON-AF-09-LED-E1-SL2-7060-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194447
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
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-SL2-7060-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57186 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 575
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

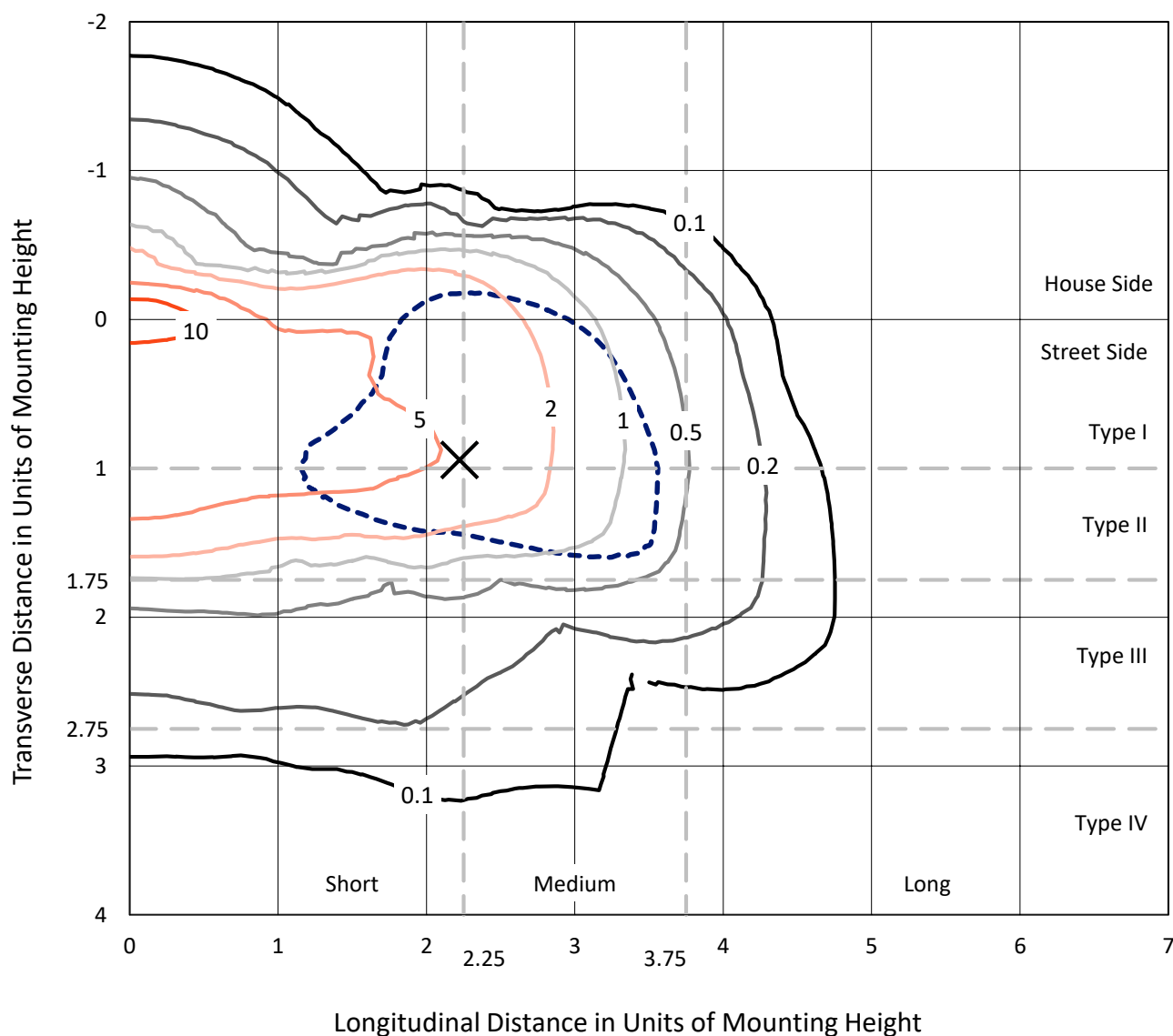


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

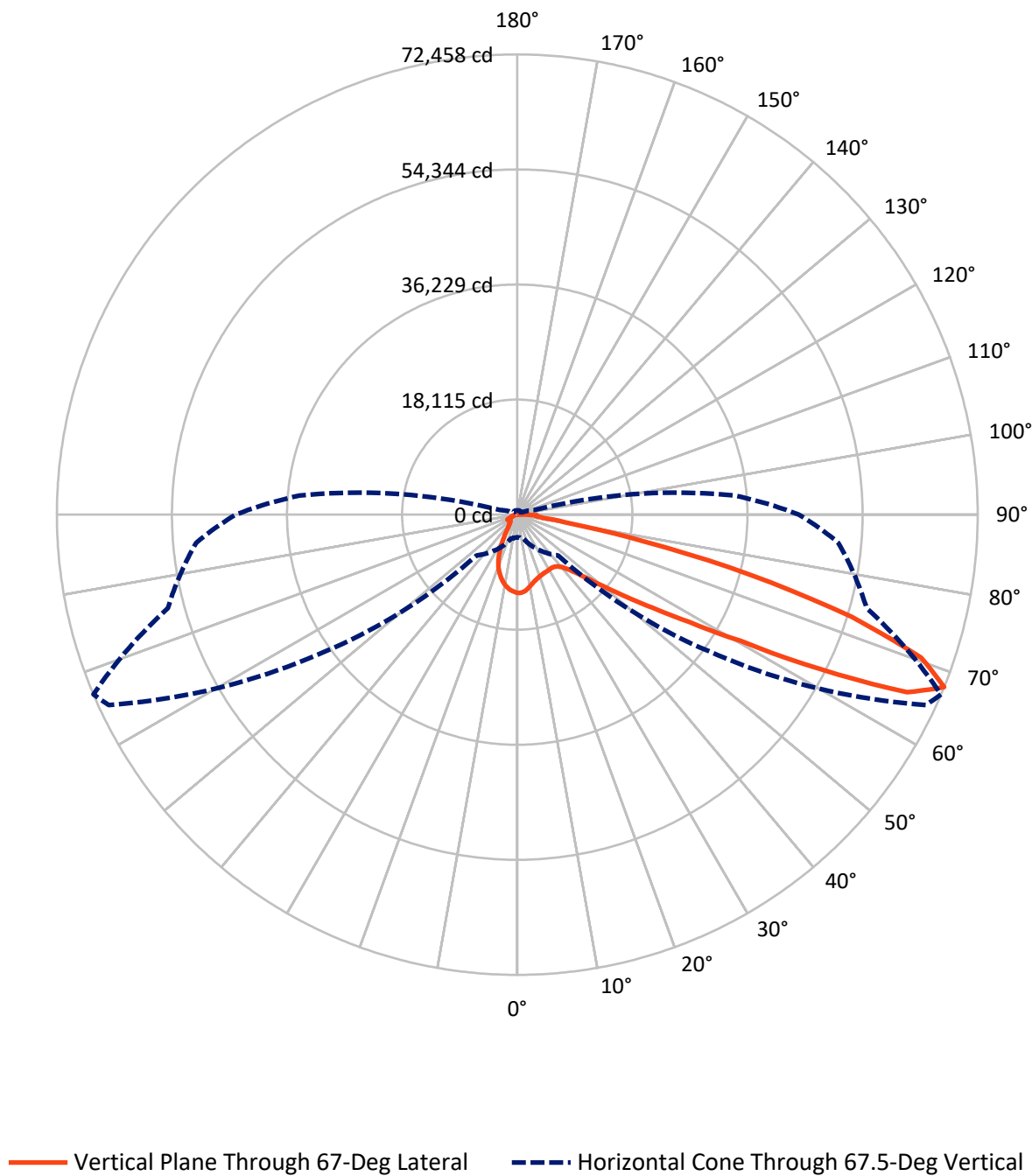


Based on 30 foot mounting height. Maximum calculated value = 13.7 fc
Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9475.1	0.0	9475.1
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	47710.9	0.0	47710.9
	% Fixture	83.4	0.0	83.4
Total	Lumens	57186.0	0.0	57186.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1052.4	1.8
10°-20°	2435.0	4.3
20°-30°	3300.6	5.8
30°-40°	4692.2	8.2
40°-50°	7850.3	13.7
50°-60°	12419.1	21.7
60°-70°	15820.6	27.7
70°-80°	8286.8	14.5
80°-90°	1329.0	2.3
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°	57186.0	100.0
0°-180°	57186.0	100.0

Coefficient of Utilization



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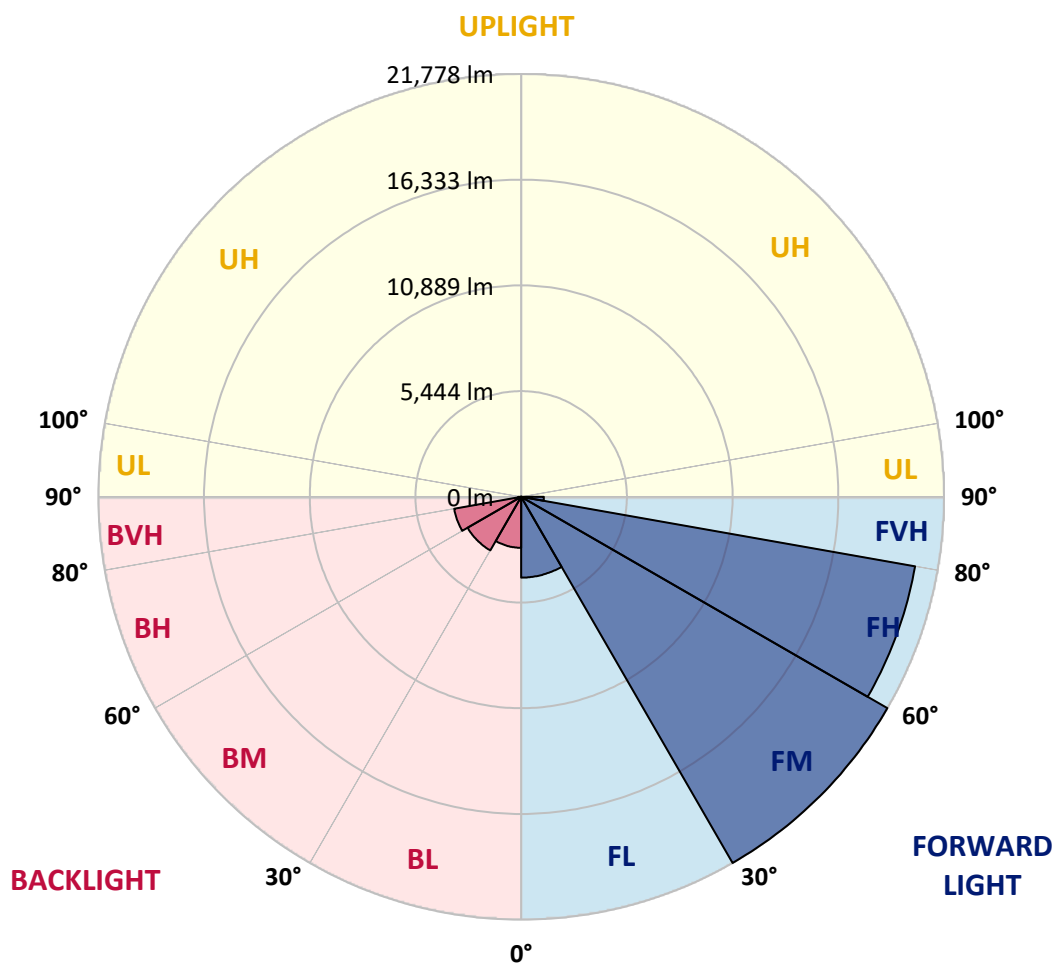
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4161.7	7.3			
FM	(30°-60°)	21777.6	38.1			
FH	(60°-80°)	20602.9	36.0			G5
FVH	(80°-90°)	1168.6	2.0			G5
BL	(0°-30°)	2626.2	4.6	B4/5000		
BM	(30°-60°)	3183.9	5.6	B3/5000		
BH	(60°-80°)	3504.5	6.1	B4/5000		G4/5000
BVH	(80°-90°)	160.4	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	12334.9	12334.9	12334.9	12334.9	12334.9	12334.9	12334.9	12334.9	12334.9	12334.9	12334.9
2.5°	11827.3	11847.0	11909.1	11948.5	12126.2	12202.3	12255.9	12309.5	12318.0	12343.3	12318.0
5°	10586.5	10628.8	10744.4	10874.1	11218.1	11488.9	11773.7	12069.8	12123.4	12315.1	12368.7
7.5°	9624.8	9613.5	9709.4	9864.5	10217.0	10592.1	11091.2	11680.6	11796.3	12227.7	12436.4
10°	8922.6	8914.2	9015.7	9176.4	9512.0	9867.3	10431.3	11237.9	11401.4	12089.5	12501.3
12.5°	8403.7	8406.6	8508.1	8685.7	9027.0	9385.1	9957.6	10809.2	11017.9	11928.8	12568.9
15°	8059.7	8082.3	8164.0	8353.0	8685.7	9043.9	9605.1	10487.8	10721.8	11801.9	12645.1
17.5°	7944.1	7980.7	8008.9	8147.1	8431.9	8790.1	9340.0	10250.9	10499.0	11714.5	12712.8
20°	8051.2	8093.5	8040.0	8087.9	8268.4	8584.2	9131.3	10064.7	10318.5	11615.8	12721.2
22.5°	8510.9	8550.4	8392.5	8254.3	8243.0	8434.8	8959.3	9918.1	10180.4	11542.4	12724.0
25°	9320.3	9345.6	9080.5	8759.1	8446.0	8381.2	8838.0	9816.6	10095.8	11477.6	12670.5
27.5°	10312.9	10332.6	10028.1	9554.3	8925.4	8508.1	8795.7	9757.4	10047.8	11421.2	12580.2
30°	11519.9	11612.9	11204.0	10606.2	9689.7	8883.1	8880.3	9726.3	9994.2	11325.3	12402.6
32.5°	12755.1	12794.5	12512.5	11906.2	10719.0	9543.0	9117.2	9748.9	9980.1	11209.7	12177.0
35°	14007.2	14057.9	13874.6	13386.8	12126.2	10510.3	9579.7	9881.4	10067.6	11170.2	12019.0
37.5°	15628.7	15696.4	15442.6	14878.6	13838.0	11821.6	10349.6	10214.2	10335.5	11283.0	11971.1
40°	18192.1	18161.1	17419.4	16579.0	15710.5	13499.6	11449.4	10778.2	10848.7	11646.8	12117.7
42.5°	21175.7	21099.6	19822.1	18502.3	17769.1	15530.0	12904.5	11756.8	11742.7	12363.1	12633.8
45°	23555.8	23493.8	22343.2	20716.1	20129.5	17842.4	14785.5	13214.7	13110.4	13499.6	13587.0
47.5°	24844.6	24847.4	24184.7	22856.5	22842.4	20780.9	17202.3	15324.1	15143.6	15326.9	15233.9
50°	24393.4	24452.6	24382.1	23959.1	25318.4	24633.1	20357.9	18265.4	17901.7	18082.1	17724.0
52.5°	22210.7	22286.8	22704.2	23352.8	26359.0	29289.0	24994.1	21920.2	21497.2	21432.3	21034.7
55°	18341.6	18434.6	19286.3	21048.8	25493.2	32416.4	32309.3	26578.9	25904.9	25293.0	25123.8
57.5°	12642.3	12797.4	14167.9	16784.9	22692.9	33361.1	41020.4	33220.1	31849.6	29712.0	29751.5
60°	7126.3	7306.7	8922.6	11299.9	17041.5	32334.6	47647.5	43279.2	40385.9	34886.8	35180.1
62.5°	4531.8	4726.4	5953.1	7851.0	10225.5	26807.4	50363.2	57263.8	53589.3	41265.7	41553.4
65°	3668.9	3753.5	4331.6	6480.5	7425.2	16150.4	48301.7	68783.7	67413.2	49362.1	48019.7
67.5°	3581.5	3609.7	3908.6	5439.9	7120.6	9077.7	38527.5	70938.3	72458.3	56922.6	50712.9
70°	3539.2	3637.9	4404.9	5191.7	6818.9	7656.4	23152.6	65033.1	67432.9	58899.5	47128.6
72.5°	1717.4	1711.8	2216.6	4695.4	7681.8	7941.2	11895.0	52619.2	55027.6	51028.7	38727.7
75°	1384.6	1266.2	1209.8	1720.2	7385.7	8200.7	7580.3	36206.6	37949.4	34212.8	23806.8
77.5°	1314.1	1173.1	1074.4	1077.3	3121.8	8697.0	6421.2	20039.2	20546.9	15453.9	6522.8
80°	1088.5	958.8	888.3	1001.1	1511.5	8282.5	6943.0	9069.3	8322.0	3795.8	2171.4
82.5°	755.8	688.1	668.4	840.4	1209.8	5902.4	8073.8	4873.0	4086.2	1900.7	1339.5
85°	482.2	411.7	456.8	611.9	941.9	2724.2	8316.3	3798.6	3020.3	1207.0	755.8
87.5°	222.8	180.5	225.6	338.4	614.8	939.1	7913.0	4266.7	3110.5	637.3	476.6
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°	12334.9	12334.9	12334.9	12334.9	12334.9	12334.9	12334.9	12334.9	12334.9	12334.9	12334.9
2.5°	12340.5	12286.9	12244.6	12165.7	12078.3	11993.7	11917.5	11821.6	11793.4	11768.1	11807.5
5°	12380.0	12326.4	12171.3	11928.8	11660.9	11409.9	11158.9	10944.6	10812.1	10738.7	10781.0
7.5°	12439.2	12363.1	12041.6	11596.0	11113.8	10673.9	10219.8	9856.1	9588.2	9461.3	9497.9
10°	12492.8	12346.2	11821.6	11153.3	10448.3	9794.0	9077.7	8485.5	8045.6	7814.3	7870.7
12.5°	12515.4	12281.3	11514.2	10600.6	9633.3	8674.5	7619.8	6734.3	6102.6	5871.3	5823.4
15°	12537.9	12208.0	11175.8	9971.7	8649.1	7292.6	5814.9	4754.6	4230.1	4114.4	4089.1
17.5°	12543.6	12081.1	10792.3	9289.2	7495.7	5648.6	3976.3	3302.3	3305.1	3491.2	3513.8
20°	12484.3	11892.1	10327.0	8440.4	6113.9	3905.8	2729.8	2614.2	3040.0	3505.3	3561.7
22.5°	12349.0	11641.1	9799.7	7450.6	4531.8	2571.9	2112.2	2239.1	2789.0	3358.7	3423.5
25°	12177.0	11336.6	9176.4	6302.8	3000.5	1838.7	1771.0	1926.1	2298.3	2679.0	2715.7
27.5°	11942.9	10975.6	8477.1	4988.7	1948.7	1514.4	1559.5	1663.8	1816.1	1985.3	2002.2
30°	11641.1	10544.2	7729.7	3637.9	1472.1	1362.1	1426.9	1483.3	1548.2	1644.1	1652.5
32.5°	11294.3	10129.6	6962.7	2512.7	1305.7	1283.1	1333.9	1362.1	1412.8	1472.1	1477.7
35°	11003.8	9734.8	6167.4	1776.6	1235.2	1223.9	1257.7	1269.0	1317.0	1381.8	1387.5
37.5°	10837.4	9413.3	5346.8	1432.6	1187.2	1170.3	1190.1	1190.1	1257.7	1353.6	1367.7
40°	10848.7	9235.6	4526.2	1294.4	1147.8	1125.2	1128.0	1128.0	1215.4	1319.8	1328.2
42.5°	11156.1	9280.8	3798.6	1240.8	1116.7	1091.4	1077.3	1085.7	1159.0	1226.7	1232.4
45°	11878.0	9599.4	3116.2	1207.0	1085.7	1077.3	1046.2	1043.4	1071.6	1102.6	1102.6
47.5°	13062.5	10228.3	2653.7	1184.4	1060.3	1057.5	1020.9	984.2	981.4	992.7	992.7
50°	14988.5	11311.2	2343.5	1159.0	1043.4	1020.9	978.6	922.2	902.4	910.9	910.9
52.5°	17876.3	13242.9	2225.0	1125.2	1006.8	970.1	922.2	865.8	848.8	851.7	851.7
55°	21663.6	16209.6	2208.1	1085.7	967.3	908.1	868.6	826.3	806.5	812.2	812.2
57.5°	26291.3	20312.8	2509.8	1023.7	913.7	846.0	823.5	795.3	781.2	789.6	786.8
60°	31917.3	25682.2	3722.5	958.8	860.1	789.6	789.6	767.1	755.8	764.2	761.4
62.5°	38397.7	31849.6	5234.0	910.9	803.7	744.5	755.8	744.5	733.2	738.9	736.0
65°	44145.0	35868.2	4901.2	874.2	747.3	702.2	721.9	716.3	707.8	713.5	710.7
67.5°	44311.4	34379.2	2752.4	834.7	693.7	659.9	688.1	685.3	679.6	685.3	682.5
70°	39545.5	29029.6	1551.0	761.4	637.3	609.1	648.6	645.8	640.2	651.4	648.6
72.5°	31683.2	21065.7	1133.7	671.2	580.9	555.5	600.7	597.8	597.8	614.8	606.3
75°	18231.6	10840.3	905.2	575.3	521.7	502.0	541.4	544.3	549.9	572.5	555.5
77.5°	5197.3	3378.4	738.9	487.9	448.4	439.9	479.4	485.0	487.9	513.2	490.7
80°	1931.7	1556.7	609.1	408.9	366.6	369.4	406.1	414.5	417.4	442.7	414.5
82.5°	1232.4	1026.5	493.5	315.8	287.6	284.8	329.9	341.2	341.2	344.0	327.1
85°	719.1	614.8	372.2	228.4	203.0	194.6	245.3	265.1	256.6	251.0	239.7
87.5°	482.2	423.0	228.4	126.9	110.0	104.3	143.8	157.9	152.3	143.8	135.4
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)