

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: P192847

Luminaire Tested: **GLEON-AF-09-LED-E1-SL2-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192847
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-SL2-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 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: 55308.1 lumens
Efficiency: N/A
Efficacy: 96.2 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

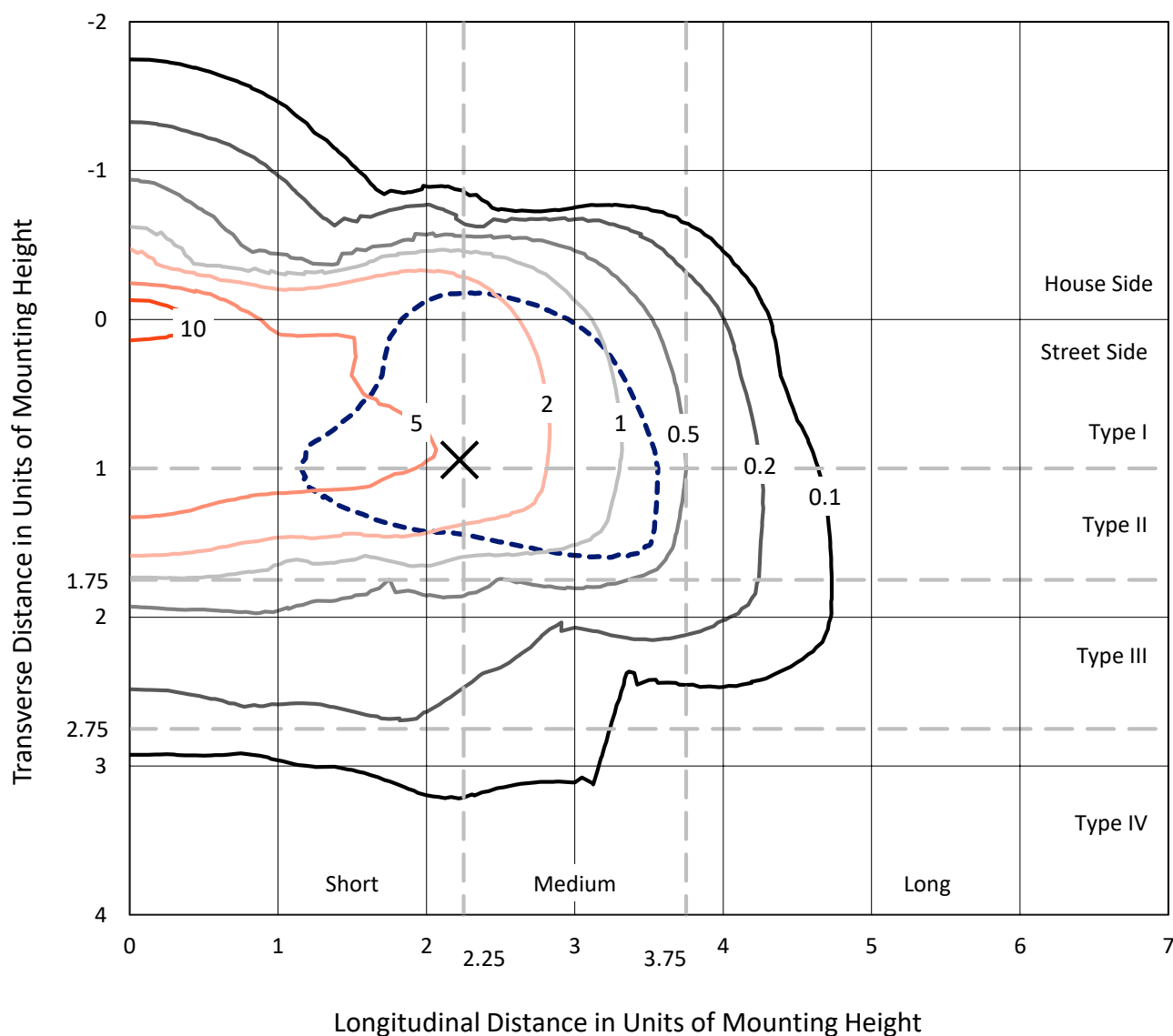


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

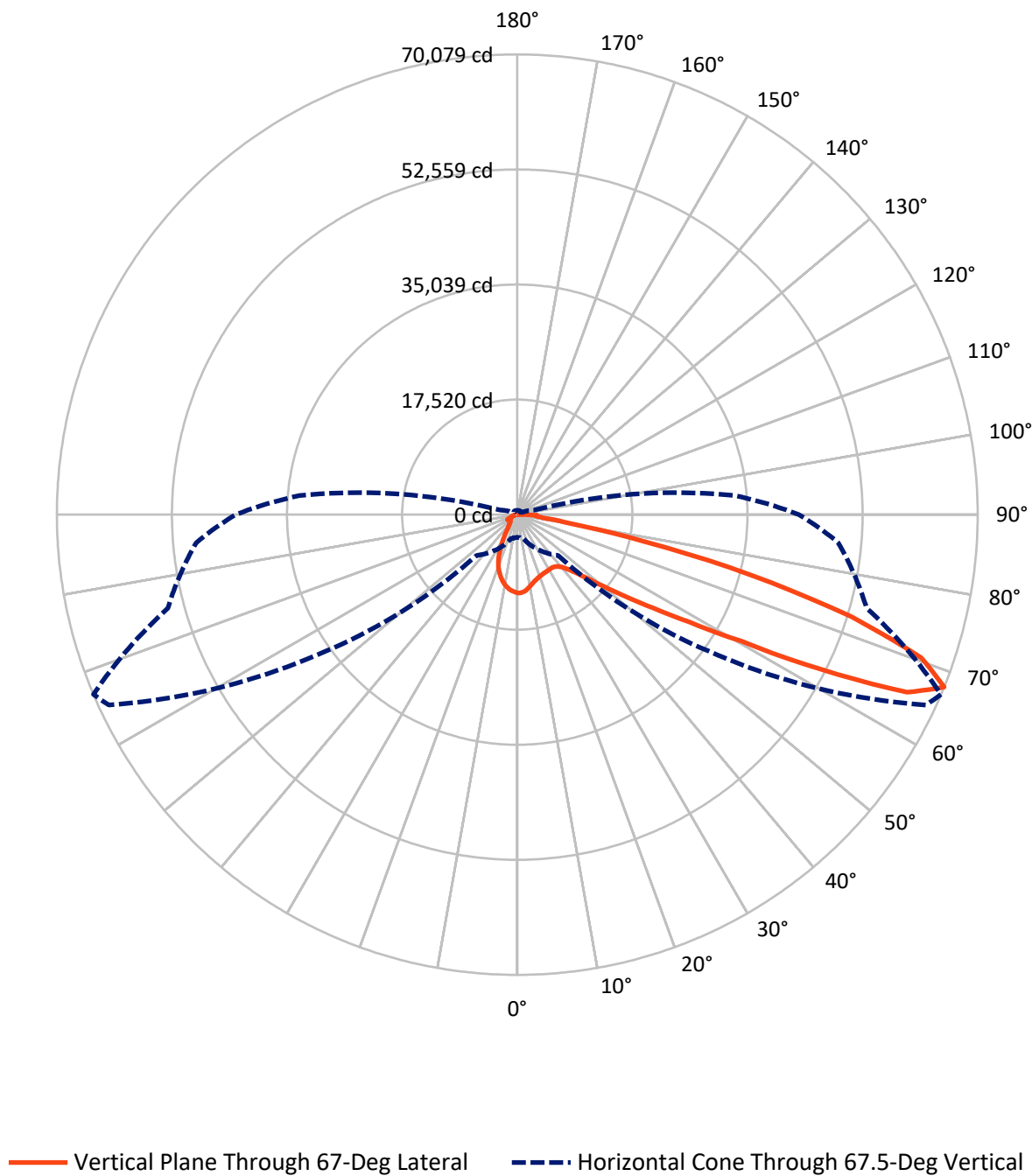


Based on 30 foot mounting height. Maximum calculated value = 13.3 fc
Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9163.9	0.0	9163.9
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	46144.2	0.0	46144.2
	% Fixture	83.4	0.0	83.4
Total	Lumens	55308.1	0.0	55308.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1017.8	1.8
10°-20°	2355.0	4.3
20°-30°	3192.3	5.8
30°-40°	4538.1	8.2
40°-50°	7592.5	13.7
50°-60°	12011.2	21.7
60°-70°	15301.1	27.7
70°-80°	8014.7	14.5
80°-90°	1285.4	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°	55308.1	100.0
0°-180°	55308.1	100.0

Coefficient of Utilization



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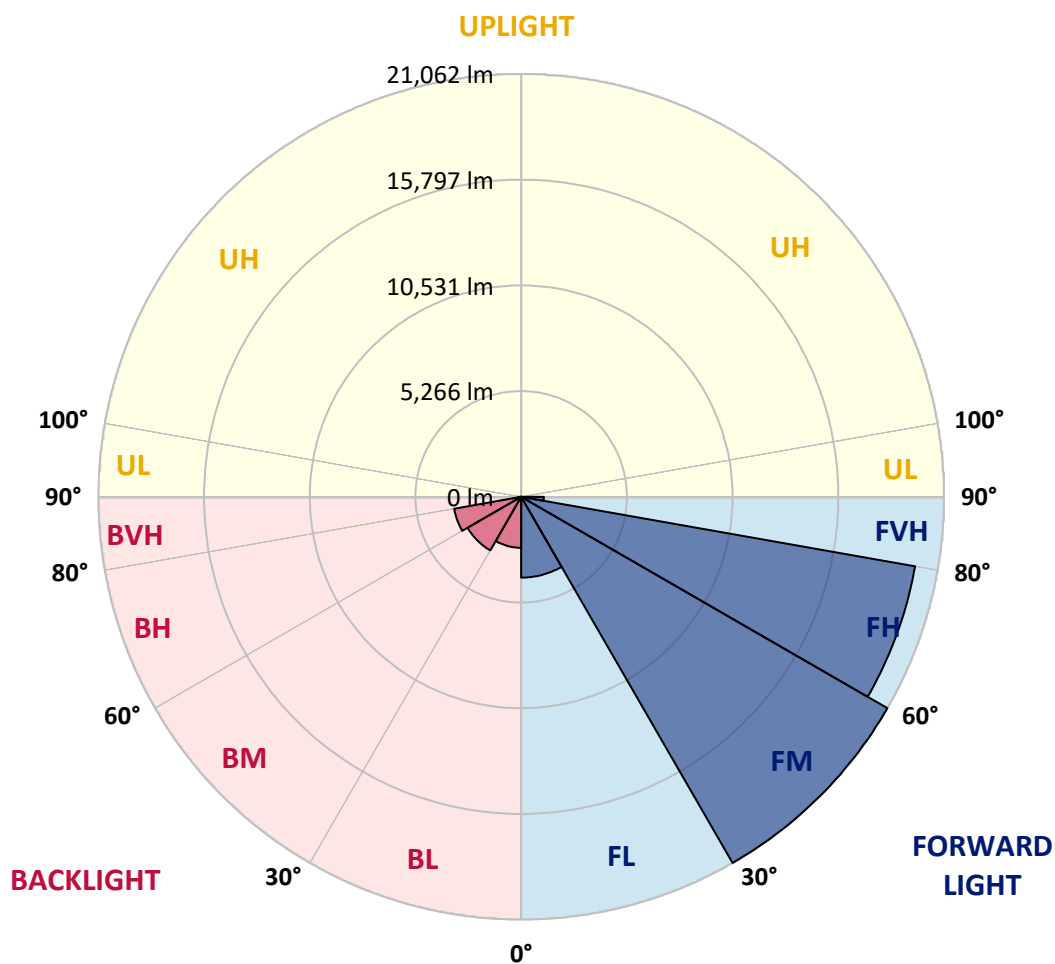
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4025.1	7.3			
FM	(30°-60°)	21062.5	38.1			
FH	(60°-80°)	19926.4	36.0			G5
FVH	(80°-90°)	1130.3	2.0			G5
BL	(0°-30°)	2540.0	4.6	B4/5000		
BM	(30°-60°)	3079.4	5.6	B3/5000		
BH	(60°-80°)	3389.4	6.1	B4/5000		G4/5000
BVH	(80°-90°)	155.2	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°	11929.8	11929.8	11929.8	11929.8	11929.8	11929.8	11929.8	11929.8	11929.8	11929.8	11929.8
2.5°	11438.9	11458.0	11518.0	11556.2	11728.0	11801.6	11853.4	11905.3	11913.4	11938.0	11913.4
5°	10238.8	10279.7	10391.5	10517.0	10849.8	11111.5	11387.1	11673.5	11725.2	11910.8	11962.6
7.5°	9308.8	9297.9	9390.7	9540.6	9881.5	10244.2	10727.1	11297.1	11408.9	11826.2	12028.1
10°	8629.7	8621.4	8719.7	8875.1	9199.6	9543.4	10088.8	10868.9	11027.0	11692.5	12090.7
12.5°	8127.8	8130.5	8228.7	8400.5	8730.6	9076.9	9630.5	10454.3	10656.2	11537.1	12156.1
15°	7795.0	7816.9	7895.9	8078.6	8400.5	8746.9	9289.7	10143.3	10369.7	11414.4	12229.8
17.5°	7683.2	7718.6	7745.9	7879.6	8155.0	8501.5	9033.3	9914.3	10154.2	11329.7	12295.3
20°	7786.8	7827.8	7776.0	7822.3	7996.9	8302.3	8831.4	9734.2	9979.7	11234.4	12303.4
22.5°	8231.4	8269.7	8116.9	7983.2	7972.3	8157.8	8665.2	9592.4	9846.1	11163.4	12306.2
25°	9014.2	9038.7	8782.4	8471.4	8168.7	8106.0	8547.8	9494.2	9764.3	11100.6	12254.4
27.5°	9974.3	9993.4	9698.8	9240.6	8632.3	8228.7	8506.9	9436.9	9717.8	11046.1	12167.1
30°	11141.6	11231.7	10836.2	10258.0	9371.5	8591.5	8588.8	9406.9	9666.0	10953.4	11995.2
32.5°	12336.3	12374.3	12101.7	11515.3	10366.9	9229.6	8817.8	9428.7	9652.4	10841.6	11777.0
35°	13547.2	13596.3	13419.0	12947.1	11728.0	10165.2	9265.0	9556.9	9736.9	10803.4	11624.3
37.5°	15115.5	15180.9	14935.5	14390.0	13383.6	11433.4	10009.7	9878.7	9996.0	10912.5	11577.9
40°	17594.7	17564.7	16847.4	16034.7	15194.5	13056.3	11073.4	10424.3	10492.5	11264.3	11719.8
42.5°	20480.3	20406.7	19171.1	17894.7	17185.6	15020.0	12480.8	11370.7	11357.1	11957.2	12218.9
45°	22782.3	22722.3	21609.6	20035.8	19468.5	17256.5	14300.0	12780.8	12679.9	13056.3	13140.8
47.5°	24028.8	24031.5	23390.5	22105.9	22092.2	20098.6	16637.4	14820.9	14646.3	14823.6	14733.6
50°	23592.4	23649.6	23581.4	23172.4	24486.9	23824.2	19689.4	17665.6	17313.8	17488.4	17142.0
52.5°	21481.4	21555.0	21958.6	22586.0	25493.4	28327.2	24173.3	21200.4	20791.3	20728.5	20344.0
55°	17739.3	17829.3	18653.0	20357.6	24656.1	31352.0	31248.2	25706.1	25054.2	24462.4	24298.8
57.5°	12227.1	12377.1	13702.6	16233.7	21947.7	32265.7	39673.3	32129.3	30803.7	28736.3	28774.5
60°	6892.3	7066.8	8629.7	10928.8	16482.0	31272.8	46082.9	41858.0	39059.6	33741.2	34024.9
62.5°	4383.1	4571.2	5757.6	7593.2	9889.7	25927.0	48709.4	55383.4	51829.6	39910.7	40188.9
65°	3548.4	3630.2	4189.3	6267.6	7181.4	15620.0	46715.7	66525.0	65199.5	47741.2	46442.9
67.5°	3463.8	3491.2	3780.3	5261.3	6886.8	8779.6	37262.4	68608.8	70078.9	55053.4	49047.6
70°	3423.0	3518.3	4260.2	5021.2	6595.0	7405.0	22392.2	62897.5	65218.6	56965.4	45581.0
72.5°	1661.0	1655.6	2143.7	4541.2	7429.5	7680.5	11504.4	50891.4	53220.5	49353.1	37455.9
75°	1339.2	1224.6	1170.0	1663.7	7143.2	7931.3	7331.4	35017.6	36703.1	33089.2	23025.1
77.5°	1271.0	1134.6	1039.2	1041.9	3019.3	8411.5	6210.4	19381.2	19872.2	14946.3	6308.5
80°	1052.8	927.3	859.1	968.2	1461.9	8010.5	6715.0	8771.5	8048.7	3671.1	2100.2
82.5°	731.0	665.5	646.4	812.8	1170.0	5708.6	7808.6	4713.0	3952.0	1838.3	1295.5
85°	466.4	398.2	441.9	591.8	911.0	2634.7	8043.2	3673.9	2921.0	1167.3	731.0
87.5°	215.5	174.6	218.2	327.3	594.6	908.3	7653.2	4126.6	3008.4	616.4	461.0
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°	11929.8	11929.8	11929.8	11929.8	11929.8	11929.8	11929.8	11929.8	11929.8	11929.8	11929.8
2.5°	11935.3	11883.5	11842.5	11766.1	11681.7	11599.8	11526.2	11433.4	11406.1	11381.6	11419.8
5°	11973.5	11921.6	11771.6	11537.1	11278.0	11035.1	10792.5	10585.1	10456.9	10386.0	10427.0
7.5°	12030.7	11957.2	11646.2	11215.3	10748.8	10323.4	9884.2	9532.5	9273.3	9150.6	9186.0
10°	12082.6	11940.7	11433.4	10787.0	10105.2	9472.4	8779.6	8206.9	7781.5	7557.8	7612.3
12.5°	12104.4	11878.0	11136.1	10252.5	9317.0	8389.6	7369.5	6513.2	5902.1	5678.5	5632.2
15°	12126.2	11807.1	10808.8	9644.2	8365.1	7053.1	5624.0	4598.5	4091.2	3979.3	3954.7
17.5°	12131.7	11684.4	10437.9	8984.2	7249.6	5463.1	3845.7	3193.8	3196.6	3376.5	3398.4
20°	12074.4	11501.6	9987.9	8163.2	5913.1	3777.5	2640.1	2528.4	2940.1	3390.2	3444.7
22.5°	11943.4	11258.8	9477.9	7205.8	4383.1	2487.4	2042.8	2165.6	2697.4	3248.4	3311.1
25°	11777.0	10964.2	8875.1	6095.8	2902.0	1778.3	1712.8	1862.9	2222.9	2591.1	2626.5
27.5°	11550.7	10615.2	8198.7	4824.9	1884.6	1464.6	1508.4	1609.2	1756.5	1920.1	1936.5
30°	11258.8	10197.9	7475.9	3518.3	1423.7	1317.3	1380.1	1434.7	1497.4	1590.0	1598.3
32.5°	10923.4	9796.9	6734.0	2430.2	1262.8	1240.9	1290.2	1317.3	1366.4	1423.7	1429.2
35°	10642.5	9415.1	5964.9	1718.3	1194.6	1183.8	1216.5	1227.3	1273.8	1336.5	1341.9
37.5°	10481.6	9104.2	5171.2	1385.5	1148.2	1131.9	1150.9	1150.9	1216.5	1309.2	1322.8
40°	10492.5	8932.4	4377.6	1251.9	1110.1	1088.2	1091.0	1091.0	1175.5	1276.4	1284.7
42.5°	10789.8	8975.9	3673.9	1200.1	1080.0	1055.6	1041.9	1050.1	1121.0	1186.4	1191.9
45°	11487.9	9284.2	3013.8	1167.3	1050.1	1041.9	1011.8	1009.1	1036.5	1066.5	1066.5
47.5°	12633.5	9892.5	2566.5	1145.5	1025.5	1022.7	987.3	951.8	949.1	960.1	960.1
50°	14496.3	10939.8	2266.5	1121.0	1009.1	987.3	946.4	891.9	872.8	880.9	880.9
52.5°	17289.3	12808.0	2152.0	1088.2	973.7	938.2	891.9	837.4	821.0	823.7	823.7
55°	20952.2	15677.3	2135.6	1050.1	935.5	878.2	840.1	799.1	780.0	785.5	785.5
57.5°	25427.9	19645.8	2427.4	990.1	883.7	818.3	796.4	769.1	755.5	763.7	761.0
60°	30869.1	24838.8	3600.2	927.3	831.9	763.7	763.7	741.9	731.0	739.1	736.4
62.5°	37136.9	30803.7	5062.1	880.9	777.3	720.0	731.0	720.0	709.1	714.5	711.9
65°	42695.3	34690.4	4740.3	845.5	722.8	679.1	698.2	692.8	684.6	690.1	687.4
67.5°	42856.3	33250.3	2662.0	807.3	671.0	638.2	665.5	662.7	657.3	662.7	660.0
70°	38246.9	28076.3	1500.1	736.4	616.4	589.1	627.2	624.6	619.2	630.0	627.2
72.5°	30642.9	20374.0	1096.4	649.1	561.8	537.3	580.9	578.2	578.2	594.6	586.4
75°	17633.0	10484.3	875.5	556.3	504.6	485.4	523.7	526.4	531.9	553.6	537.3
77.5°	5026.7	3267.5	714.5	471.9	433.6	425.4	463.7	469.2	471.9	496.4	474.6
80°	1868.4	1505.6	589.1	395.5	354.5	357.3	392.8	401.0	403.7	428.2	401.0
82.5°	1191.9	992.8	477.4	305.5	278.2	275.5	319.1	330.1	330.1	332.7	316.5
85°	695.6	594.6	360.0	220.9	196.3	188.2	237.3	256.4	248.2	242.8	231.8
87.5°	466.4	409.0	220.9	122.7	106.4	100.9	139.1	152.8	147.3	139.1	130.9
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)