

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: P191987

Luminaire Tested: **GLEON-AF-09-LED-E1-SL3-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191987
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
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-SL3-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58380 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-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

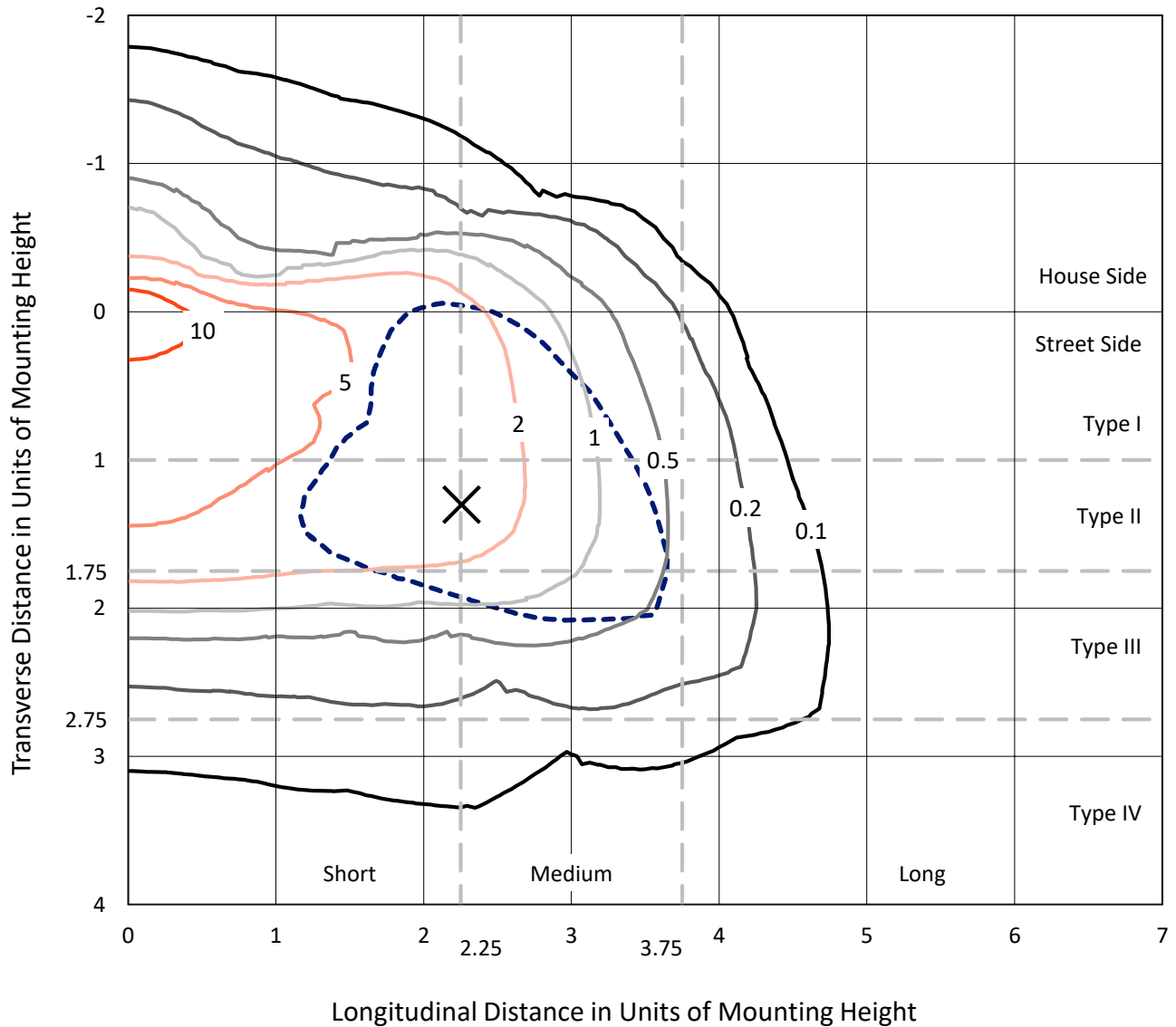


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

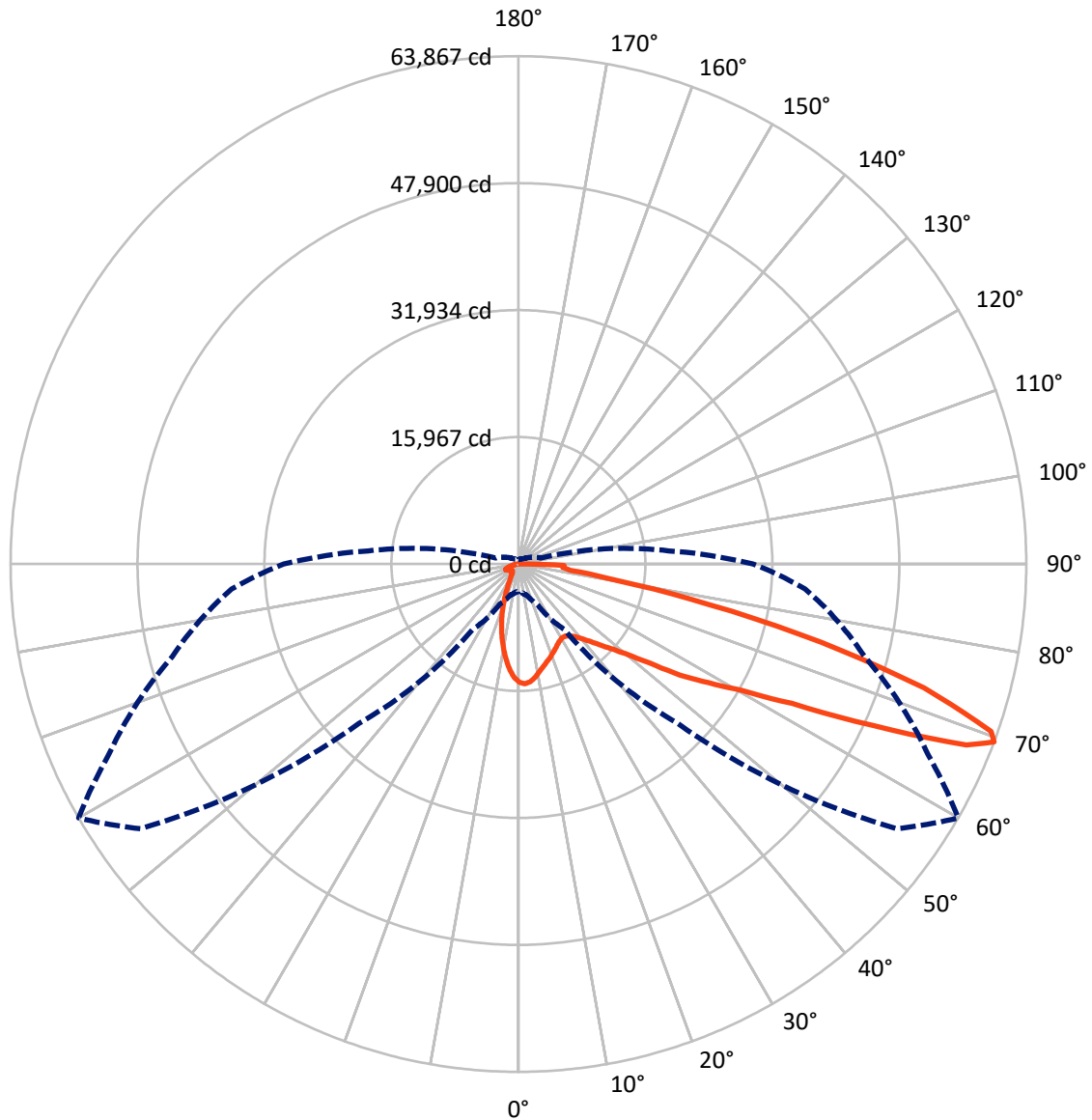


Based on 30 foot mounting height. Maximum calculated value = 16.5 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8305.6	0.0	8305.6
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	50074.4	0.0	50074.4
	% Fixture	85.8	0.0	85.8
Total	Lumens	58380.0	0.0	58380.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1257.8	2.2
10°-20°	2679.9	4.6
20°-30°	3414.7	5.8
30°-40°	4694.3	8.0
40°-50°	7616.9	13.0
50°-60°	12215.6	20.9
60°-70°	16258.0	27.8
70°-80°	8778.1	15.0
80°-90°	1464.7	2.5
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°	58380.0	100.0
0°-180°	58380.0	100.0

Coefficient of Utilization



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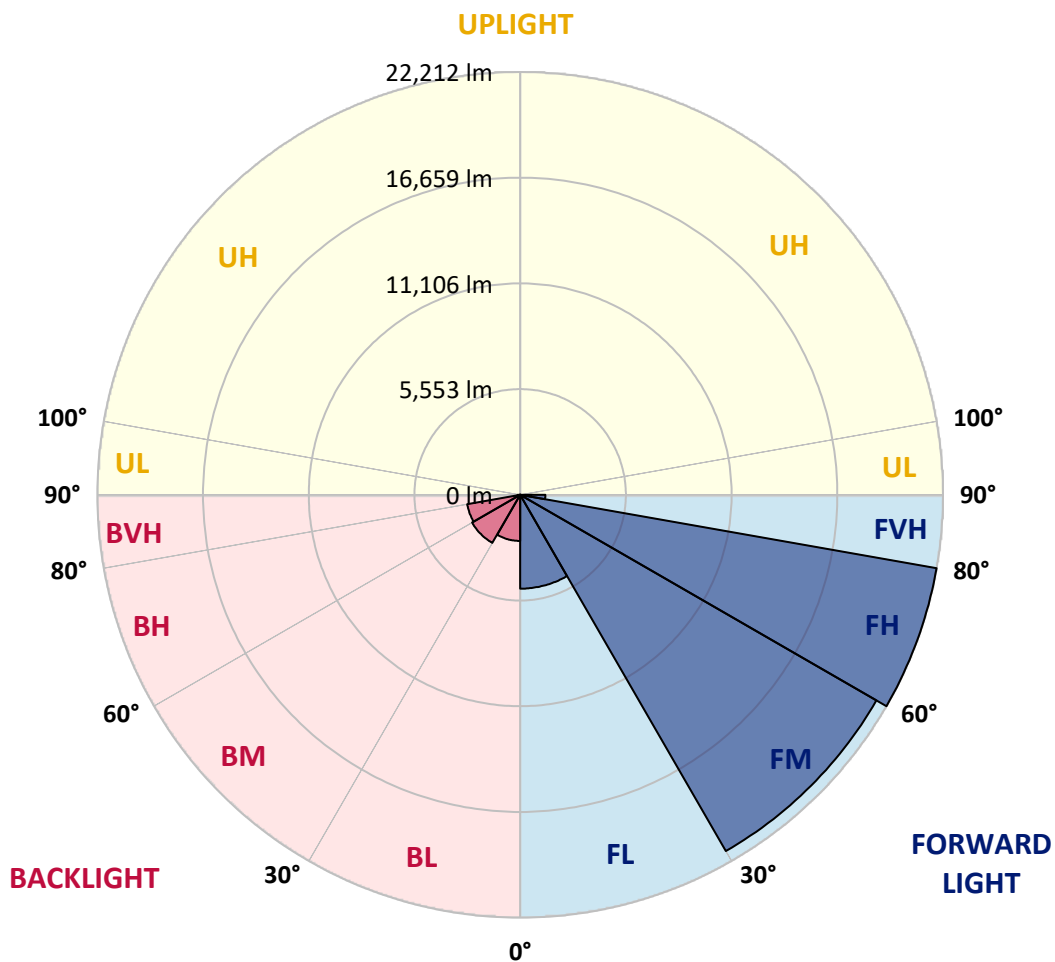
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4929.4	8.4			
FM (30°-60°)	21608.9	37.0			
FH (60°-80°)	22212.5	38.0			G5
FVH (80°-90°)	1323.6	2.3			G5
BL (0°-30°)	2423.0	4.2	B3/2500		
BM (30°-60°)	2917.9	5.0	B3/5000		
BH (60°-80°)	2823.7	4.8	B4/5000		G4/5000
BVH (80°-90°)	141.0	0.2			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	14876.1	14876.1	14876.1	14876.1	14876.1	14876.1	14876.1	14876.1	14876.1	14876.1	14876.1
2.5°	15180.7	15214.5	15200.4	15192.0	15217.3	15177.9	15096.1	15070.7	15031.2	14938.2	14780.2
5°	14611.0	14712.5	14706.9	14783.0	14910.0	14943.8	14907.1	14912.8	14839.4	14723.8	14461.6
7.5°	13626.8	13669.1	13691.7	13858.0	14089.3	14275.4	14433.4	14484.1	14450.3	14351.6	14013.2
10°	12611.6	12645.4	12699.0	12893.6	13186.9	13443.5	13742.4	13914.5	13987.8	13970.9	13593.0
12.5°	11740.1	11774.0	11844.5	12064.5	12414.1	12730.0	13164.3	13378.6	13553.5	13657.8	13251.7
15°	10959.0	11032.3	11100.0	11353.8	11745.8	12160.3	12651.0	12921.8	13192.5	13426.6	12950.0
17.5°	10349.8	10423.1	10462.6	10693.9	11111.3	11618.9	12194.2	12512.9	12851.3	13234.8	12651.0
20°	9997.3	10031.2	10014.2	10144.0	10519.0	11057.7	11740.1	12109.6	12518.5	13054.3	12352.1
22.5°	9898.6	9901.4	9839.4	9825.3	10067.8	10521.9	11255.1	11703.5	12205.5	12935.9	12095.5
25°	10138.3	10129.9	9960.6	9822.5	9847.8	10112.9	10786.9	11308.7	11943.2	12910.5	11898.1
27.5°	10671.3	10696.7	10445.7	10186.3	9929.6	9921.2	10431.6	10981.5	11728.9	13026.1	11813.5
30°	11418.6	11461.0	11193.0	10863.1	10380.8	9983.2	10293.4	10786.9	11596.3	13265.8	11799.4
32.5°	12236.5	12281.6	12078.6	11731.7	11100.0	10366.7	10389.3	10803.9	11590.7	13601.4	11895.2
35°	13107.9	13158.7	13054.3	12761.0	12058.8	11074.6	10755.9	11077.4	11774.0	14114.7	12151.9
37.5°	14080.8	14159.8	14188.0	13908.8	13158.7	12008.1	11356.6	11596.3	12188.5	14828.2	12622.8
40°	15482.4	15592.4	15584.0	15183.5	14419.3	13268.6	12284.4	12346.5	12834.3	15781.4	13375.8
42.5°	18167.2	18189.7	17487.5	16616.1	15806.7	14594.1	13378.6	13327.9	13725.5	16988.4	14484.1
45°	21582.3	21489.3	19926.9	18243.3	17256.3	16117.0	14802.8	14554.6	14856.4	18460.5	15871.6
47.5°	24416.6	24202.2	22228.2	19904.4	18790.4	17772.4	16475.1	16040.8	16207.2	20130.0	17665.2
50°	25400.8	25240.0	23604.4	21286.2	20242.8	19791.6	18533.8	17919.0	17964.1	22121.0	19766.2
52.5°	25189.3	25166.7	24075.3	22197.1	21602.1	21912.3	21449.8	20617.9	20177.9	24332.0	22033.6
55°	24690.1	24738.1	24343.2	23257.5	23156.0	23959.7	25259.8	24645.0	23277.2	26562.7	24377.1
57.5°	22955.7	23079.8	23948.4	24591.4	25657.4	26853.1	28328.1	28153.2	26613.4	28973.9	27163.4
60°	18494.3	18782.0	21111.4	24332.0	28232.2	31971.7	32631.6	32225.5	30054.0	31966.0	30843.6
62.5°	12958.4	13257.4	16026.7	21066.3	27809.2	37752.9	40324.8	38573.5	34994.8	36373.9	35606.8
65°	6937.5	7081.3	9196.4	14616.7	23477.5	38945.8	51568.6	48903.6	42817.8	41808.2	39681.8
67.5°	3826.9	3905.9	4715.2	7380.2	15036.9	34295.4	58731.7	60745.3	52595.2	45426.4	38940.2
69°	3460.3	3533.6	4063.8	5589.5	10062.2	28356.3	58032.3	63867.2	56881.7	45068.3	36199.0
70°	3384.1	3451.8	3928.4	5152.4	8144.5	23373.1	55688.8	63069.1	57902.6	43785.1	33807.5
72.5°	3045.7	3119.0	3581.5	4627.8	6960.0	11652.7	44112.3	53325.6	52569.8	37964.4	25643.3
75°	2839.9	2907.5	3691.5	4531.9	6663.9	7374.6	29081.0	39301.1	38644.0	26557.0	13827.0
77.5°	1215.5	1209.8	1711.8	3835.4	6762.6	7140.5	15626.3	24551.9	22400.2	11351.0	3970.7
80°	812.2	798.1	812.2	1128.0	6201.4	7180.0	8186.8	12462.1	9413.5	2893.4	1957.2
82.5°	699.4	688.1	713.5	688.1	2179.9	8195.3	6960.0	6627.3	4475.5	1644.1	970.1
85°	471.0	451.2	614.8	617.6	1029.3	7281.5	7839.9	5597.9	3621.0	975.8	479.4
87.5°	225.6	220.0	358.2	437.1	603.5	2958.3	8795.9	5736.1	3652.0	499.2	228.4
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°	14876.1	14876.1	14876.1	14876.1	14876.1	14876.1	14876.1	14876.1	14876.1	14876.1	14876.1
2.5°	14732.3	14616.7	14503.9	14368.5	14227.5	14069.6	13990.6	13911.6	13891.9	13869.3	13790.4
5°	14326.2	14162.6	13880.6	13570.4	13243.3	12924.6	12682.1	12529.8	12414.1	12354.9	12250.6
7.5°	13801.6	13561.9	13068.4	12532.6	11982.7	11480.7	11046.4	10772.8	10513.4	10392.1	10253.9
10°	13302.5	12944.3	12177.3	11387.6	10598.0	9839.4	9125.9	8621.1	8172.7	7921.7	7744.0
12.5°	12873.8	12383.1	11319.9	10251.1	9168.2	8088.1	7019.3	6178.9	5476.7	5107.2	4918.3
15°	12456.5	11864.2	10504.9	9148.5	7758.1	6288.9	4884.4	3931.2	3350.3	3119.0	3040.1
17.5°	12078.6	11319.9	9687.1	8037.3	6303.0	4526.3	3282.6	2758.1	2535.3	2459.1	2433.8
20°	11669.6	10770.0	8838.2	6875.4	4785.7	3164.2	2563.5	2332.2	2242.0	2219.4	2208.2
22.5°	11274.8	10228.6	8026.0	5631.8	3437.7	2442.2	2202.5	2106.6	2092.5	2112.3	2112.3
25°	10939.2	9743.5	7149.0	4331.7	2524.0	2055.9	1971.3	1948.7	2002.3	2075.6	2089.7
27.5°	10688.2	9345.9	6215.5	3198.0	2010.7	1788.0	1785.1	1821.8	1954.3	2095.3	2123.5
30°	10516.2	8968.0	5217.2	2306.9	1686.4	1573.6	1618.7	1697.7	1892.3	2092.5	2146.1
32.5°	10428.8	8688.8	4176.6	1785.1	1443.9	1381.9	1458.0	1553.9	1745.7	1931.8	2002.3
35°	10496.5	8482.9	3195.2	1489.0	1274.7	1226.8	1305.7	1398.8	1511.6	1590.5	1644.1
37.5°	10750.3	8401.1	2411.2	1333.9	1159.1	1113.9	1176.0	1229.6	1274.7	1297.3	1322.6
40°	11297.4	8488.5	1931.8	1255.0	1094.2	1037.8	1063.2	1082.9	1111.1	1133.7	1145.0
42.5°	12103.9	8750.8	1731.6	1223.9	1060.4	978.6	972.9	981.4	1018.1	1060.4	1068.8
45°	13232.0	9213.3	1717.5	1243.7	1043.4	930.6	905.3	916.5	972.9	1037.8	1049.1
47.5°	14673.1	9918.3	1830.3	1302.9	1057.5	905.3	863.0	877.1	947.6	1035.0	1049.1
50°	16418.7	10902.6	2019.2	1390.3	1119.6	910.9	848.9	857.3	930.6	1026.5	1040.6
52.5°	18480.2	12298.5	2225.1	1474.9	1184.4	947.6	860.1	840.4	908.1	992.7	1009.6
55°	20773.0	14089.3	2436.6	1551.1	1218.3	992.7	882.7	817.8	865.8	936.3	950.4
57.5°	23587.4	16593.6	2803.2	1624.4	1240.9	1023.7	905.3	795.3	812.2	863.0	874.2
60°	27397.4	20135.6	3449.0	1745.7	1291.6	1035.0	902.4	775.5	758.6	786.8	792.5
62.5°	31963.2	23982.3	3987.6	1897.9	1376.2	1043.4	885.5	761.4	713.5	713.5	719.1
65°	34673.3	25011.6	3688.7	2024.8	1446.7	1035.0	865.8	747.3	679.6	648.6	651.4
67.5°	32374.9	21996.9	3161.3	2050.2	1443.9	995.5	834.8	721.9	645.8	597.9	595.0
69°	29495.6	18979.4	2924.5	1982.5	1376.2	944.7	795.3	693.7	620.4	569.7	566.8
70°	27174.6	17137.8	2769.4	1909.2	1302.9	908.1	764.3	668.4	600.7	552.7	547.1
72.5°	19757.7	11229.7	2366.1	1641.3	1074.5	761.4	659.9	586.6	535.8	507.6	502.0
75°	9873.2	5355.4	1920.5	1331.1	823.5	609.1	541.5	490.7	465.3	459.7	456.9
77.5°	3243.1	2453.5	1373.4	992.7	612.0	476.6	437.1	400.5	394.8	411.7	406.1
80°	1782.3	1427.0	871.4	657.1	417.4	349.7	344.1	324.3	332.8	361.0	355.3
82.5°	908.1	741.7	538.6	394.8	282.0	251.0	273.6	262.3	273.6	298.9	296.1
85°	448.4	406.1	341.2	239.7	186.1	160.7	194.6	203.0	208.7	228.4	228.4
87.5°	259.5	239.7	180.5	112.8	93.1	84.6	112.8	110.0	129.7	141.0	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)