

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: P191977

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191977
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 1050mA 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: 53218 lumens
Efficiency: N/A
Efficacy: 106.2 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

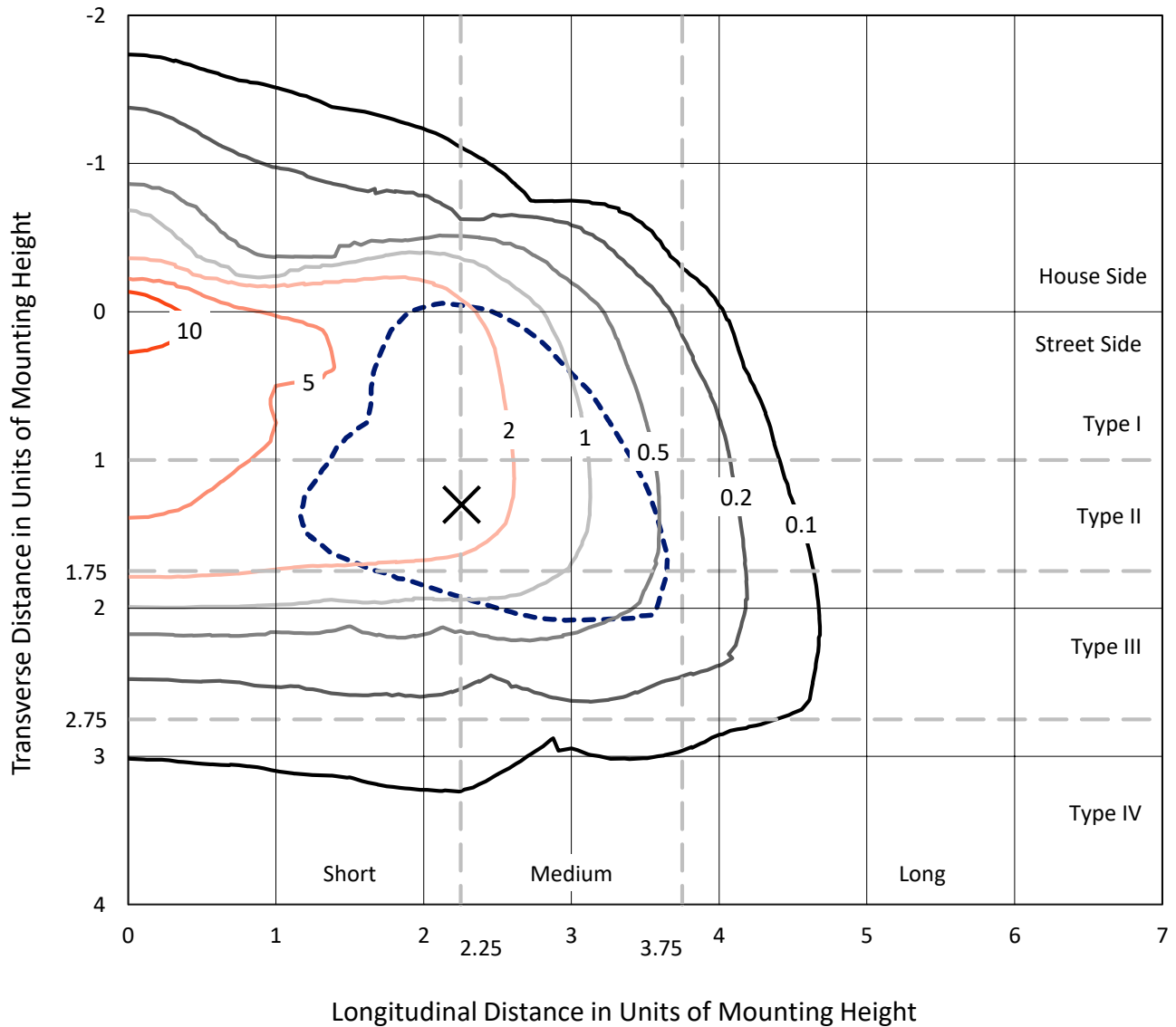
Input Watts (W): 501
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

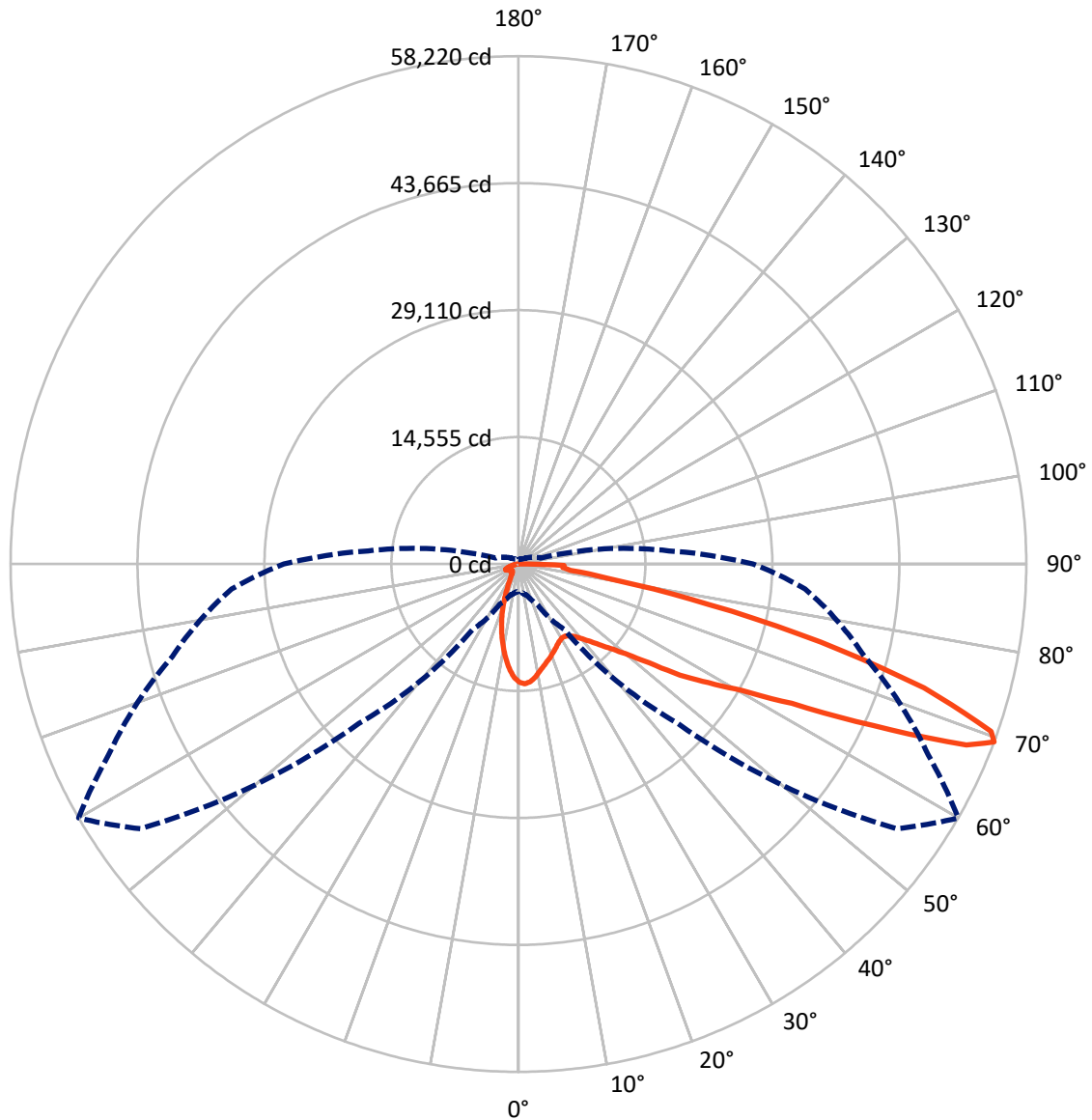
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15.1 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	7571.3	0.0	7571.3
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	45646.8	0.0	45646.8
	% Fixture	85.8	0.0	85.8
Total	Lumens	53218.0	0.0	53218.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1146.6	2.2
10°-20°	2442.9	4.6
20°-30°	3112.7	5.8
30°-40°	4279.2	8.0
40°-50°	6943.4	13.0
50°-60°	11135.5	20.9
60°-70°	14820.5	27.8
70°-80°	8001.9	15.0
80°-90°	1335.2	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°	53218.0	100.0
0°-180°	53218.0	100.0

Coefficient of Utilization



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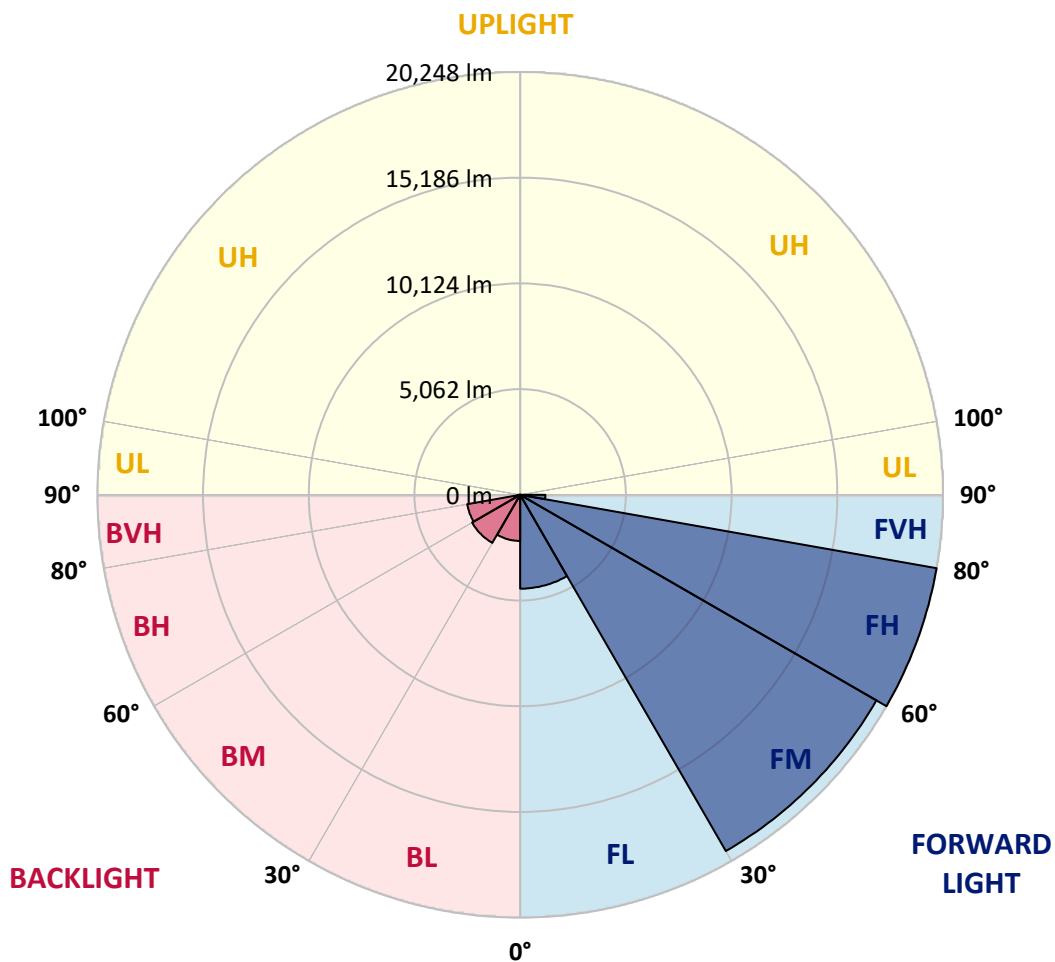
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4493.5	8.4			
FM	(30°-60°)	19698.2	37.0			
FH	(60°-80°)	20248.4	38.0			G5
FVH	(80°-90°)	1206.6	2.3			G5
BL	(0°-30°)	2208.8	4.2	B3/2500		
BM	(30°-60°)	2659.9	5.0	B3/5000		
BH	(60°-80°)	2574.0	4.8	B4/5000		G4/5000
BVH	(80°-90°)	128.6	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°	13560.8	13560.8	13560.8	13560.8	13560.8	13560.8	13560.8	13560.8	13560.8	13560.8	13560.8
2.5°	13838.4	13869.2	13856.4	13848.7	13871.8	13835.8	13761.3	13738.1	13702.1	13617.3	13473.3
5°	13319.1	13411.7	13406.5	13475.9	13591.6	13622.5	13589.0	13594.2	13527.3	13421.9	13182.9
7.5°	12421.9	12460.5	12481.0	12632.7	12843.5	13013.2	13157.1	13203.4	13172.6	13082.6	12774.1
10°	11496.4	11527.3	11576.1	11753.5	12020.9	12254.8	12527.3	12684.1	12751.0	12735.5	12391.1
12.5°	10702.1	10732.9	10797.2	10997.7	11316.5	11604.4	12000.3	12195.7	12355.1	12450.2	12080.0
15°	9990.0	10056.8	10118.5	10349.9	10707.2	11085.1	11532.4	11779.2	12026.0	12239.4	11804.9
17.5°	9434.7	9501.5	9537.5	9748.3	10128.8	10591.5	11116.0	11406.5	11714.9	12064.6	11532.4
20°	9113.3	9144.2	9128.8	9247.0	9588.9	10079.9	10702.1	11038.8	11411.6	11900.0	11259.9
22.5°	9023.4	9025.9	8969.4	8956.5	9177.6	9591.5	10259.9	10668.7	11126.2	11792.1	11026.0
25°	9241.9	9234.2	9079.9	8954.0	8977.1	9218.7	9833.2	10308.7	10887.2	11768.9	10846.0
27.5°	9727.8	9750.9	9522.1	9285.6	9051.6	9043.9	9509.2	10010.5	10691.8	11874.3	10768.9
30°	10409.0	10447.6	10203.3	9902.6	9463.0	9100.5	9383.3	9833.2	10571.0	12092.9	10756.1
32.5°	11154.5	11195.7	11010.6	10694.4	10118.5	9450.1	9470.7	9848.6	10565.8	12398.8	10843.5
35°	11948.9	11995.2	11900.0	11632.7	10992.6	10095.4	9804.9	10097.9	10732.9	12866.6	11077.4
37.5°	12835.8	12907.8	12933.5	12679.0	11995.2	10946.3	10352.4	10571.0	11110.8	13517.1	11506.7
40°	14113.5	14213.7	14206.0	13841.0	13144.3	12095.4	11198.2	11254.8	11699.5	14386.0	12193.1
42.5°	16560.8	16581.4	15941.3	15146.9	14409.1	13303.7	12195.7	12149.4	12511.9	15486.3	13203.4
45°	19674.0	19589.2	18165.0	16630.2	15730.5	14691.9	13493.9	13267.7	13542.8	16828.2	14468.2
47.5°	22257.6	22062.3	20262.7	18144.4	17129.0	16200.9	15018.4	14622.5	14774.2	18350.1	16103.2
50°	23154.8	23008.3	21517.3	19404.1	18452.9	18041.6	16895.0	16334.6	16375.7	20165.0	18018.5
52.5°	22962.0	22941.5	21946.6	20234.4	19692.0	19974.8	19553.2	18794.8	18393.8	22180.5	20085.3
55°	22507.0	22550.7	22190.8	21201.1	21108.5	21841.2	23026.3	22465.9	21219.0	24214.0	22221.6
57.5°	20926.0	21039.1	21830.9	22417.0	23388.8	24478.8	25823.3	25663.9	24260.3	26412.0	24761.6
60°	16859.0	17121.3	19244.7	22180.5	25735.9	29144.7	29746.3	29376.1	27396.6	29139.6	28116.4
62.5°	11812.6	12085.1	14609.6	19203.6	25350.3	34414.8	36759.3	35162.8	31900.6	33157.7	32458.4
65°	6324.1	6455.2	8383.2	13324.2	21401.6	35502.2	47008.9	44579.5	39031.8	38111.5	36173.2
67.5°	3488.5	3560.5	4298.3	6727.7	13707.3	31263.0	53538.6	55374.2	47944.7	41409.8	35497.0
69°	3154.3	3221.2	3704.5	5095.2	9172.5	25849.0	52901.1	58220.0	51852.2	41083.3	32998.3
70°	3084.9	3146.6	3581.1	4696.8	7424.4	21306.5	50764.8	57492.5	52782.8	39913.6	30818.3
72.5°	2776.4	2843.3	3264.9	4218.6	6344.6	10622.4	40211.8	48610.5	47921.5	34607.6	23375.9
75°	2588.8	2650.5	3365.1	4131.2	6074.7	6722.5	26509.7	35826.1	35227.1	24208.8	12604.4
77.5°	1108.0	1102.9	1560.5	3496.2	6164.7	6509.2	14244.6	22381.0	20419.5	10347.3	3619.6
80°	740.4	727.5	740.4	1028.3	5653.1	6545.2	7462.9	11360.2	8581.2	2637.6	1784.1
82.5°	637.5	627.3	650.4	627.3	1987.2	7470.6	6344.6	6041.3	4079.8	1498.8	884.3
85°	429.3	411.3	560.4	563.0	938.3	6637.7	7146.7	5103.0	3300.9	889.5	437.0
87.5°	205.7	200.5	326.5	398.5	550.1	2696.7	8018.2	5228.9	3329.1	455.0	208.2
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°	13560.8	13560.8	13560.8	13560.8	13560.8	13560.8	13560.8	13560.8	13560.8	13560.8	13560.8
2.5°	13429.6	13324.2	13221.4	13098.0	12969.5	12825.5	12753.5	12681.6	12663.6	12643.0	12571.0
5°	13059.5	12910.4	12653.3	12370.5	12072.3	11781.8	11560.7	11421.9	11316.5	11262.5	11167.4
7.5°	12581.3	12362.8	11912.9	11424.5	10923.2	10465.6	10069.7	9820.3	9583.8	9473.2	9347.3
10°	12126.3	11799.8	11100.5	10380.7	9660.9	8969.4	8319.0	7858.8	7450.1	7221.3	7059.3
12.5°	11735.5	11288.2	10319.0	9344.7	8357.5	7372.9	6398.6	5632.5	4992.4	4655.6	4483.4
15°	11355.0	10815.2	9576.1	8339.5	7072.2	5732.8	4452.6	3583.6	3054.1	2843.3	2771.3
17.5°	11010.6	10319.0	8830.6	7326.7	5745.6	4126.1	2992.4	2514.2	2311.1	2241.7	2218.6
20°	10637.8	9817.7	8056.8	6267.5	4362.6	2884.4	2336.8	2126.0	2043.8	2023.2	2012.9
22.5°	10277.9	9324.1	7316.4	5133.8	3133.8	2226.3	2007.8	1920.4	1907.5	1925.5	1925.5
25°	9972.0	8882.0	6516.9	3948.7	2300.8	1874.1	1797.0	1776.4	1825.2	1892.1	1904.9
27.5°	9743.2	8519.5	5666.0	2915.2	1833.0	1629.9	1627.3	1660.7	1781.5	1910.1	1935.8
30°	9586.4	8175.0	4755.9	2102.9	1537.3	1434.5	1475.6	1547.6	1725.0	1907.5	1956.3
32.5°	9506.7	7920.5	3807.3	1627.3	1316.2	1259.7	1329.1	1416.5	1591.3	1761.0	1825.2
35°	9568.4	7732.8	2912.7	1357.4	1162.0	1118.3	1190.3	1275.1	1377.9	1449.9	1498.8
37.5°	9799.7	7658.3	2198.0	1216.0	1056.6	1015.4	1072.0	1120.9	1162.0	1182.5	1205.7
40°	10298.5	7738.0	1761.0	1144.0	997.5	946.0	969.2	987.2	1012.9	1033.4	1043.7
42.5°	11033.7	7977.1	1578.4	1115.7	966.6	892.1	886.9	894.6	928.0	966.6	974.3
45°	12062.0	8398.7	1565.6	1133.7	951.2	848.4	825.2	835.5	886.9	946.0	956.3
47.5°	13375.7	9041.4	1668.4	1187.7	964.0	825.2	786.7	799.5	863.8	943.5	956.3
50°	14967.0	9938.6	1840.7	1267.4	1020.6	830.4	773.8	781.5	848.4	935.8	948.6
52.5°	16846.2	11211.1	2028.3	1344.5	1079.7	863.8	784.1	766.1	827.8	904.9	920.3
55°	18936.2	12843.5	2221.1	1413.9	1110.6	904.9	804.6	745.5	789.2	853.5	866.3
57.5°	21501.8	15126.3	2555.3	1480.8	1131.1	933.2	825.2	725.0	740.4	786.7	796.9
60°	24974.9	18355.2	3144.0	1591.3	1177.4	943.5	822.6	707.0	691.5	717.2	722.4
62.5°	29137.0	21861.7	3635.1	1730.1	1254.5	951.2	807.2	694.1	650.4	650.4	655.5
65°	31607.5	22800.1	3362.6	1845.8	1318.8	943.5	789.2	681.3	619.6	591.3	593.8
67.5°	29512.3	20051.9	2881.8	1868.9	1316.2	907.5	760.9	658.1	588.7	545.0	542.4
69°	26887.6	17301.2	2665.9	1807.2	1254.5	861.2	725.0	632.4	565.6	519.3	516.7
70°	24771.8	15622.5	2524.5	1740.4	1187.7	827.8	696.7	609.3	547.6	503.9	498.7
72.5°	18010.7	10236.8	2156.9	1496.2	979.5	694.1	601.6	534.7	488.4	462.7	457.6
75°	9000.2	4881.9	1750.7	1213.4	750.7	555.3	493.6	447.3	424.2	419.0	416.5
77.5°	2956.4	2236.6	1252.0	904.9	557.9	434.5	398.5	365.0	359.9	375.3	370.2
80°	1624.7	1300.8	794.4	599.0	380.5	318.8	313.6	295.6	303.3	329.1	323.9
82.5°	827.8	676.1	491.0	359.9	257.1	228.8	249.4	239.1	249.4	272.5	269.9
85°	408.8	370.2	311.1	218.5	169.7	146.5	177.4	185.1	190.2	208.2	208.2
87.5°	236.5	218.5	164.5	102.8	84.8	77.1	102.8	100.3	118.3	128.5	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)