

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: P383615

Luminaire Tested: **GLEON-SA9A-735-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383615
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA9A-735-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 615mA 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: 38813.9 lumens
Efficiency: N/A
Efficacy: 133.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

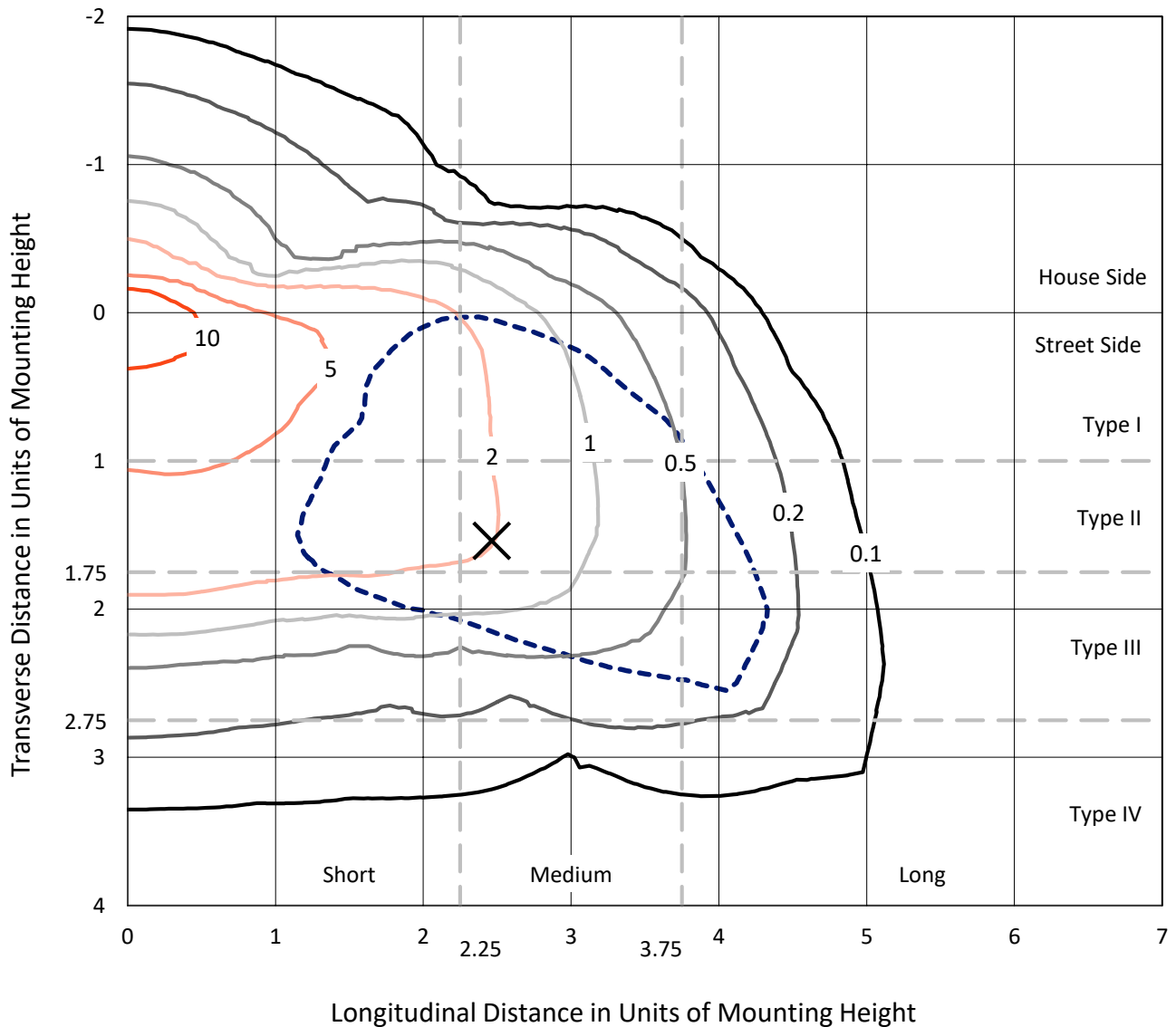
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

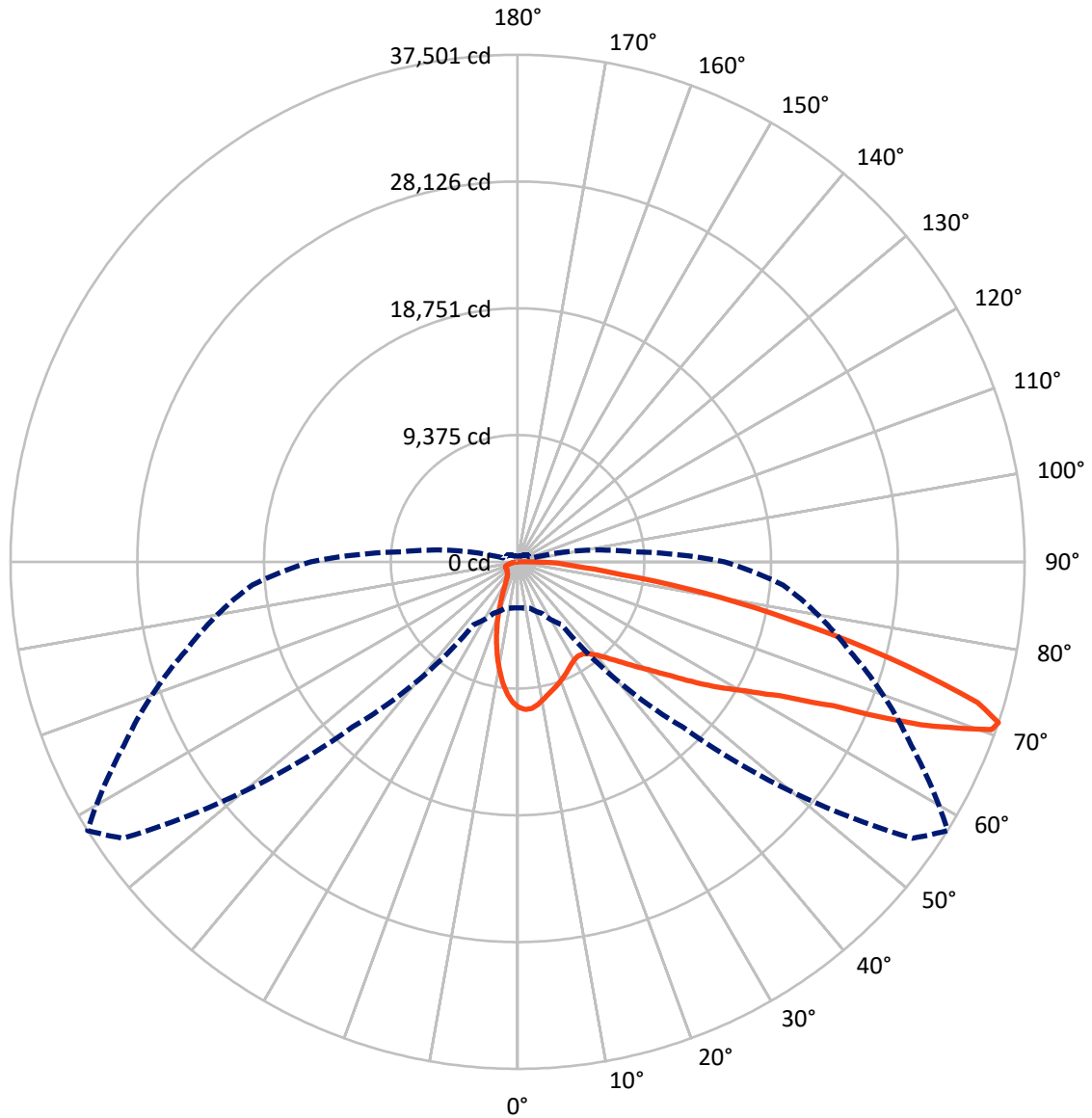
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5802.9	0.0	5802.9
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	33010.9	0.0	33010.9
	% Fixture	85.0	0.0	85.0
Total	Lumens	38813.9	0.0	38813.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	927.8	2.4
10°-20°	2063.0	5.3
20°-30°	2621.8	6.8
30°-40°	3339.7	8.6
40°-50°	4735.8	12.2
50°-60°	7328.8	18.9
60°-70°	9977.3	25.7
70°-80°	6656.0	17.1
80°-90°	1163.7	3.0
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°	38813.9	100.0
0°-180°	38813.9	100.0

Coefficient of Utilization

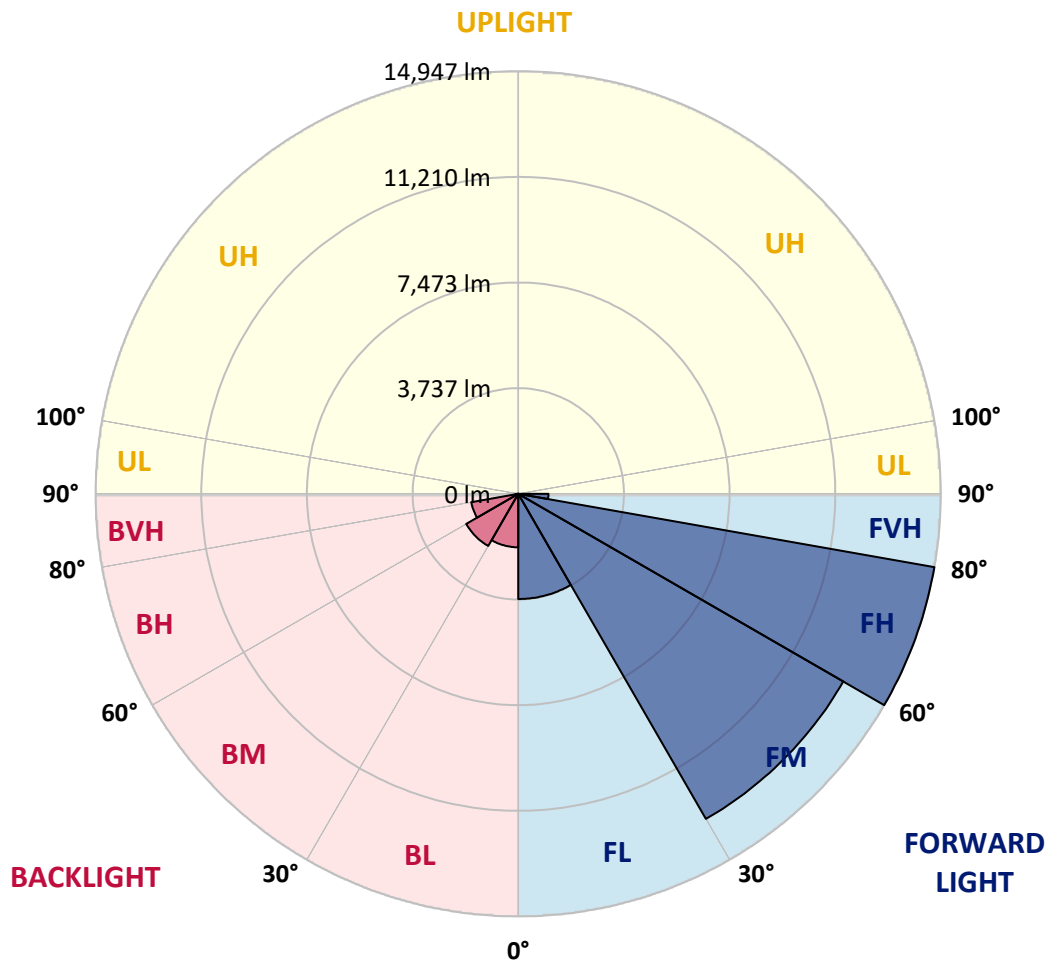


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3720.9	9.6			
FM (30°-60°)	13276.2	34.2			
FH (60°-80°)	14946.7	38.5			G5
FVH (80°-90°)	1067.0	2.7			G5
BL (0°-30°)	1891.6	4.9	B3/2500		
BM (30°-60°)	2128.1	5.5	B2/2500		
BH (60°-80°)	1686.6	4.3	B3/2500		G3/2500
BVH (80°-90°)	96.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	10754.1	10754.1	10754.1	10754.1	10754.1	10754.1	10754.1	10754.1	10754.1	10754.1	10754.1
2.5°	11039.3	11024.4	11029.8	11019.0	10993.4	10967.7	10929.8	10936.6	10883.8	10805.4	10708.0
5°	10831.1	10825.7	10866.2	10889.2	10908.1	10893.3	10882.4	10896.0	10818.9	10710.7	10541.8
7.5°	10394.4	10334.9	10386.3	10463.3	10536.4	10591.8	10664.8	10674.2	10625.6	10512.0	10290.2
10°	9773.8	9717.1	9792.7	9913.1	10059.1	10191.6	10339.0	10366.0	10375.5	10272.7	10003.7
12.5°	9130.3	9087.0	9162.7	9331.7	9573.7	9777.9	10013.1	10053.7	10137.5	10068.5	9738.7
15°	8554.3	8538.1	8630.0	8796.3	9074.9	9387.1	9726.5	9800.8	9942.8	9919.9	9531.8
17.5°	8056.8	8052.7	8123.0	8297.4	8605.6	9000.4	9441.2	9567.0	9777.9	9804.9	9361.4
20°	7686.3	7678.2	7726.8	7855.3	8173.0	8620.5	9133.0	9306.0	9610.2	9704.9	9185.7
22.5°	7487.5	7486.2	7487.5	7548.3	7808.0	8224.4	8832.8	9043.7	9446.6	9625.1	8991.0
25°	7453.8	7449.7	7420.0	7413.2	7560.5	7893.1	8535.4	8767.9	9291.2	9569.7	8805.7
27.5°	7541.6	7547.0	7507.8	7444.3	7474.0	7675.5	8277.1	8525.9	9166.7	9558.8	8677.3
30°	7724.1	7721.4	7687.6	7621.4	7563.2	7594.3	8093.3	8342.0	9083.0	9606.1	8589.4
32.5°	7925.6	7940.4	7933.7	7897.2	7810.7	7686.3	8037.8	8281.2	9058.6	9719.8	8551.6
35°	8167.6	8183.8	8232.5	8260.9	8159.5	7959.4	8156.8	8367.7	9128.9	9933.4	8612.4
37.5°	8397.4	8439.4	8575.9	8696.3	8609.7	8386.6	8473.2	8623.2	9346.6	10270.0	8776.0
40°	8662.5	8699.0	8922.0	9177.6	9164.0	8932.9	8982.9	9083.0	9730.6	10752.7	9072.2
42.5°	8923.4	8996.4	9319.6	9681.9	9786.0	9581.8	9661.6	9714.4	10271.3	11392.2	9588.6
45°	9270.9	9349.3	9798.1	10234.8	10478.2	10363.3	10490.3	10510.7	10951.5	12262.9	10339.0
47.5°	9796.8	9886.0	10409.3	10867.6	11239.4	11251.6	11461.1	11453.0	11800.5	13259.4	11284.0
50°	10616.1	10744.6	11173.2	11601.8	12053.3	12304.8	12584.6	12545.4	12818.6	14320.7	12372.4
52.5°	11689.6	11749.1	12066.9	12383.2	12944.3	13508.1	13909.7	13874.5	13973.2	15411.8	13608.1
55°	12802.4	12847.0	12978.1	13151.2	13905.6	14825.0	15674.0	15618.6	15368.5	16544.8	14829.0
57.5°	13802.8	13893.5	13984.0	14055.7	14873.6	16201.4	17479.0	17483.1	16882.8	17767.0	16090.5
60°	13958.3	14038.1	14637.0	15202.2	16529.9	18037.4	19411.0	19370.5	18449.8	19093.4	17496.6
62.5°	12338.6	12518.4	13518.9	15022.4	18125.3	21395.9	21875.8	21825.8	20323.7	20728.0	19133.9
65°	8842.2	9046.4	10253.8	12513.0	17351.9	25096.4	26324.0	25650.7	22879.0	22738.4	21051.1
67.5°	5101.2	5149.9	5673.1	7487.5	13212.0	25289.7	33109.8	32167.5	26847.2	25019.3	21989.4
70°	3772.1	3770.8	3895.2	4607.7	7149.5	20640.0	36337.2	37182.2	31025.0	25769.7	20663.0
71°	3411.1	3415.2	3554.5	4194.0	5662.3	17276.2	35651.6	37501.2	32125.5	25399.2	19703.1
72.5°	2917.7	2931.2	3124.5	3761.3	4763.2	11914.1	32698.8	35586.7	32647.4	24485.3	18201.0
75°	2213.3	2244.4	2512.1	3170.5	4353.5	6042.2	23998.5	28417.0	29002.3	21605.4	13524.3
77.5°	1579.2	1614.3	1917.2	2666.2	4138.6	4553.6	16071.5	20728.0	21343.2	13846.2	6100.3
80°	997.8	1039.7	1268.2	2121.3	3888.5	4323.8	10099.7	13932.7	11638.3	4430.6	1552.1
82.5°	585.4	617.9	786.9	1385.9	3175.9	4164.2	5942.2	7722.8	4529.3	1338.5	705.7
85°	339.4	354.3	490.8	882.9	2306.6	3930.4	4365.7	4317.1	1965.8	654.4	334.0
87.5°	158.2	175.8	290.6	461.0	1280.4	2848.8	3450.4	2981.2	1222.2	306.9	156.9
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°	10754.1	10754.1	10754.1	10754.1	10754.1	10754.1	10754.1	10754.1	10754.1	10754.1	10754.1
2.5°	10660.7	10637.7	10541.8	10456.6	10367.4	10251.1	10122.7	10106.5	10028.0	10042.8	10015.8
5°	10449.8	10391.7	10160.5	9950.9	9703.5	9481.8	9241.1	9130.3	8970.7	8959.9	8919.3
7.5°	10148.3	10040.1	9681.9	9284.4	8886.9	8508.3	8133.8	7887.7	7636.3	7529.4	7520.0
10°	9809.0	9625.1	9097.8	8509.7	7936.4	7383.4	6848.0	6451.9	6094.9	5925.9	5919.1
12.5°	9487.2	9215.4	8492.1	7691.7	6907.5	6191.0	5456.8	4936.3	4488.8	4338.7	4275.2
15°	9214.0	8831.4	7902.6	6879.1	5927.3	4932.2	4096.7	3549.1	3135.3	2992.0	2965.0
17.5°	8949.1	8457.0	7298.2	6058.4	4907.9	3814.0	2977.1	2570.2	2349.8	2291.7	2290.3
20°	8685.5	8071.6	6666.8	5218.8	3922.3	2852.8	2289.0	2106.4	2032.1	2025.4	2014.6
22.5°	8386.6	7663.3	6003.0	4376.5	3061.0	2243.0	1945.5	1872.6	1863.1	1887.4	1887.4
25°	8106.8	7257.7	5329.7	3551.8	2380.9	1871.2	1737.3	1722.5	1748.1	1791.5	1795.5
27.5°	7845.9	6867.0	4672.6	2819.0	1907.7	1648.1	1592.7	1610.3	1656.2	1706.2	1707.6
30°	7630.9	6497.8	4034.4	2221.4	1611.6	1481.8	1472.4	1507.5	1557.5	1596.8	1606.2
32.5°	7464.6	6182.9	3417.9	1786.1	1418.3	1357.5	1365.6	1395.3	1426.4	1448.0	1462.9
35°	7387.5	5912.4	2848.8	1506.1	1295.2	1261.4	1272.2	1288.5	1302.0	1318.2	1330.4
37.5°	7401.0	5702.8	2340.3	1331.7	1212.8	1195.2	1195.2	1195.2	1195.2	1203.3	1204.7
40°	7526.7	5582.5	1926.6	1220.9	1157.4	1138.4	1123.5	1110.0	1099.2	1104.6	1101.9
42.5°	7848.6	5571.7	1623.8	1150.6	1112.7	1081.6	1051.9	1033.0	1019.4	1024.8	1027.5
45°	8394.7	5706.9	1419.6	1100.5	1070.8	1023.5	985.7	965.4	955.9	973.5	976.2
47.5°	9101.9	6001.7	1295.2	1064.0	1031.6	969.4	928.8	909.9	912.6	938.3	945.1
50°	10013.1	6480.3	1235.8	1041.1	1004.6	923.4	881.5	865.3	873.4	909.9	918.0
52.5°	11013.6	7169.8	1242.5	1034.3	987.0	889.6	845.0	826.1	839.6	873.4	880.1
55°	12168.2	7998.6	1354.7	1043.8	961.3	868.0	815.3	782.8	793.7	824.7	830.1
57.5°	13451.4	8947.7	1580.6	1041.1	928.8	847.7	784.2	735.5	743.7	762.6	768.0
60°	14787.1	10094.2	1930.7	1049.2	913.9	823.4	742.3	681.4	678.7	694.9	697.6
62.5°	16390.7	11420.6	2330.9	1054.6	923.4	792.3	686.8	627.3	619.2	623.3	626.0
65°	18042.9	12380.5	2180.8	1033.0	953.2	766.6	638.2	574.6	559.8	557.1	558.4
67.5°	18094.2	11351.7	1529.1	989.7	965.4	753.1	601.7	530.0	505.6	496.2	494.8
70°	16227.0	9222.2	1191.2	943.8	916.6	731.5	567.9	493.5	457.0	442.1	440.7
71°	15315.8	8489.4	1128.9	920.7	880.1	709.8	553.0	477.2	439.4	423.2	420.5
72.5°	13886.7	7610.6	1053.2	884.2	809.9	654.4	524.6	454.3	415.1	396.2	392.1
75°	9965.8	4976.8	904.5	788.3	670.6	521.9	459.7	408.3	374.5	351.6	348.9
77.5°	3839.7	1980.7	684.1	655.7	513.7	408.3	378.6	352.9	328.6	305.5	304.2
80°	1187.1	885.6	498.9	493.5	371.8	304.2	294.7	287.9	278.5	254.2	248.8
82.5°	634.1	508.3	343.5	319.1	243.3	202.8	213.6	216.3	217.7	192.0	189.3
85°	302.8	269.0	193.3	181.2	142.0	113.6	131.2	142.0	143.3	117.7	109.5
87.5°	144.7	140.6	90.5	68.9	52.7	37.8	45.9	56.8	62.2	44.6	39.2
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)