

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: P458203

Luminaire Tested: **GALN-SA9C-760-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458203
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-760-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 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: 63172 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

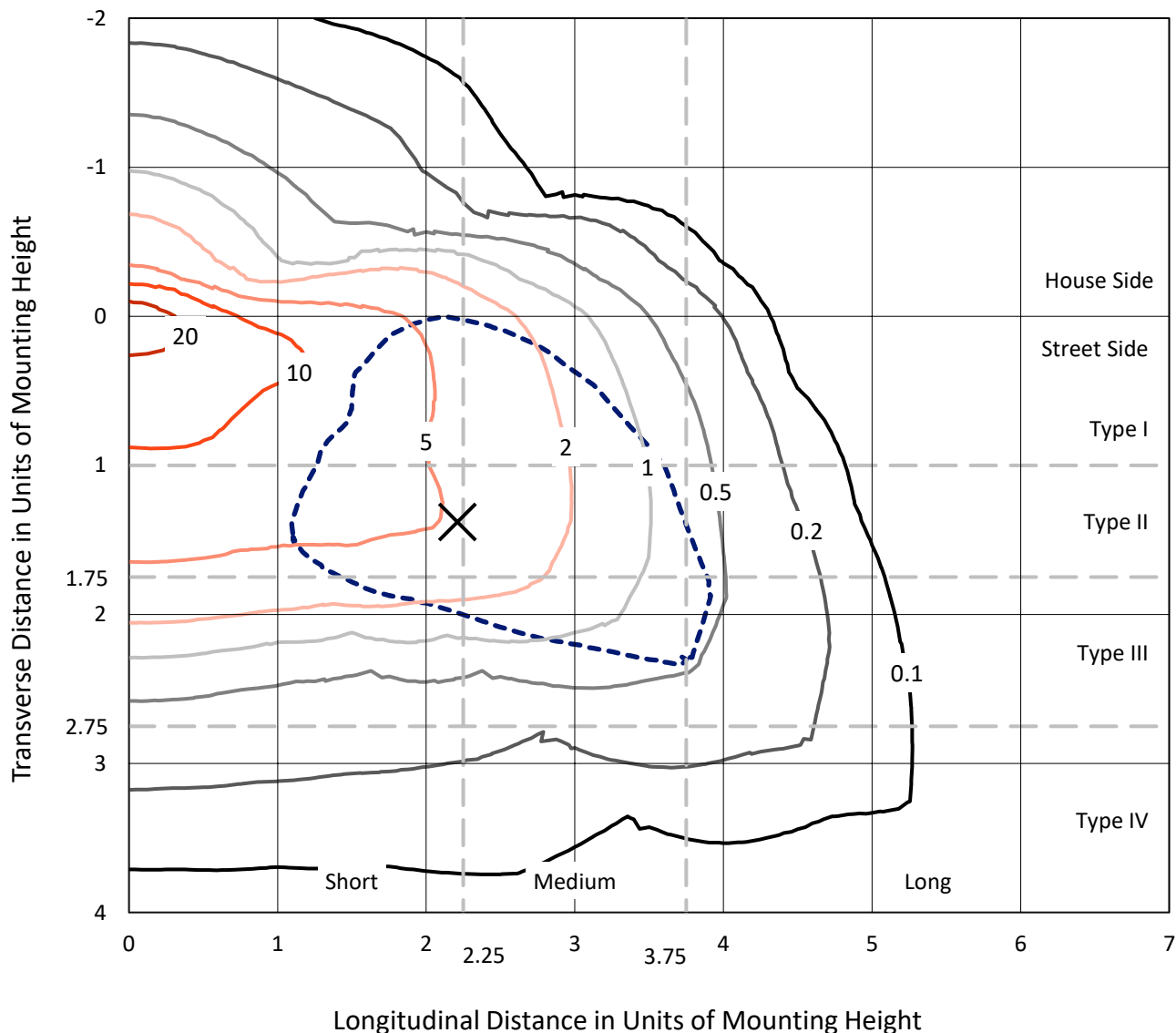
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

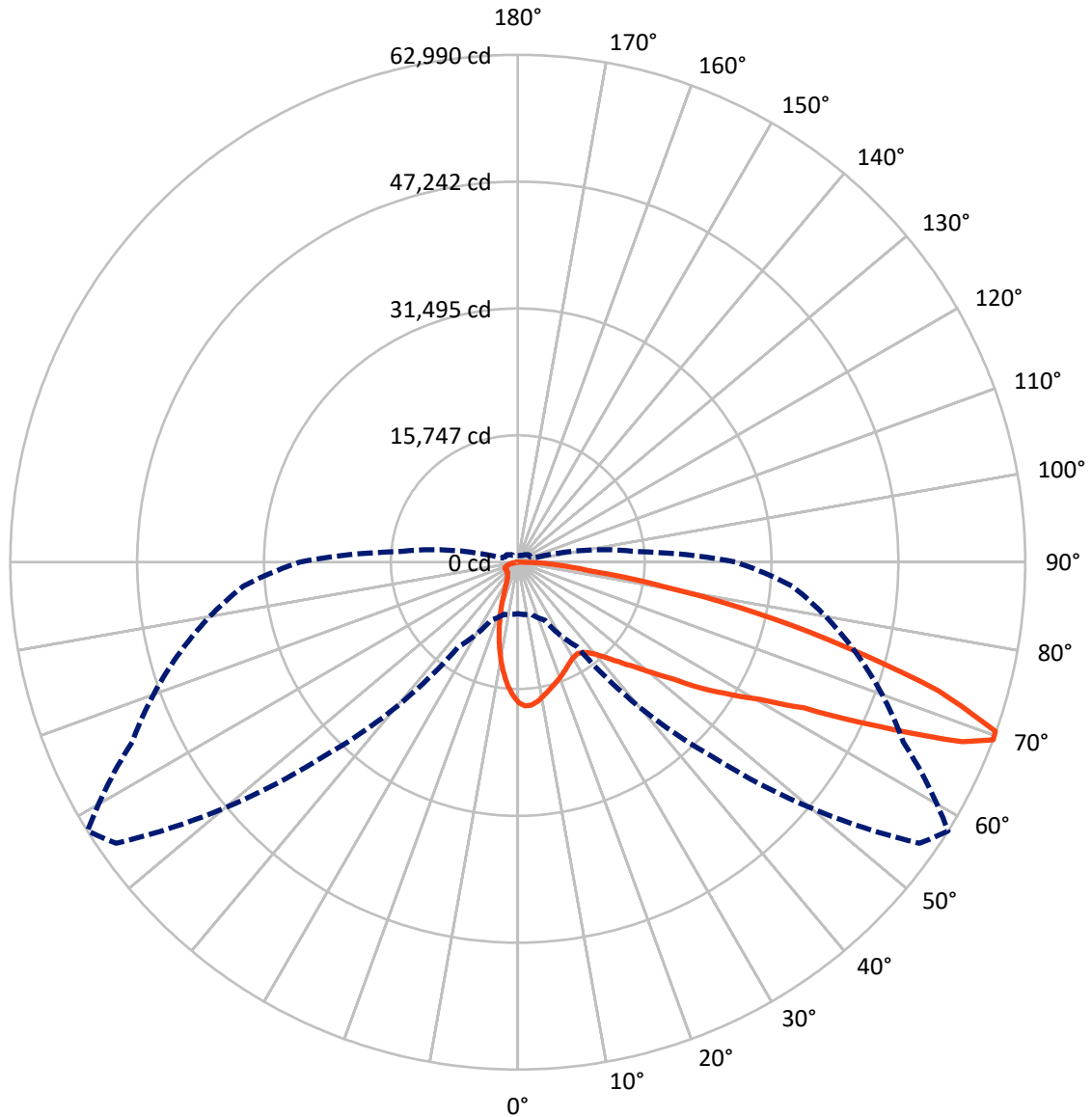
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9257.9	0.0	9257.9
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	53914.1	0.0	53914.1
	% Fixture	85.3	0.0	85.3
Total	Lumens	63172.0	0.0	63172.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1482.5	2.3
10°-20°	3255.4	5.2
20°-30°	4206.0	6.7
30°-40°	5462.8	8.6
40°-50°	7942.1	12.6
50°-60°	12672.9	20.1
60°-70°	16929.5	26.8
70°-80°	9759.1	15.4
80°-90°	1461.7	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°	63172.0	100.0
0°-180°	63172.0	100.0

Coefficient of Utilization



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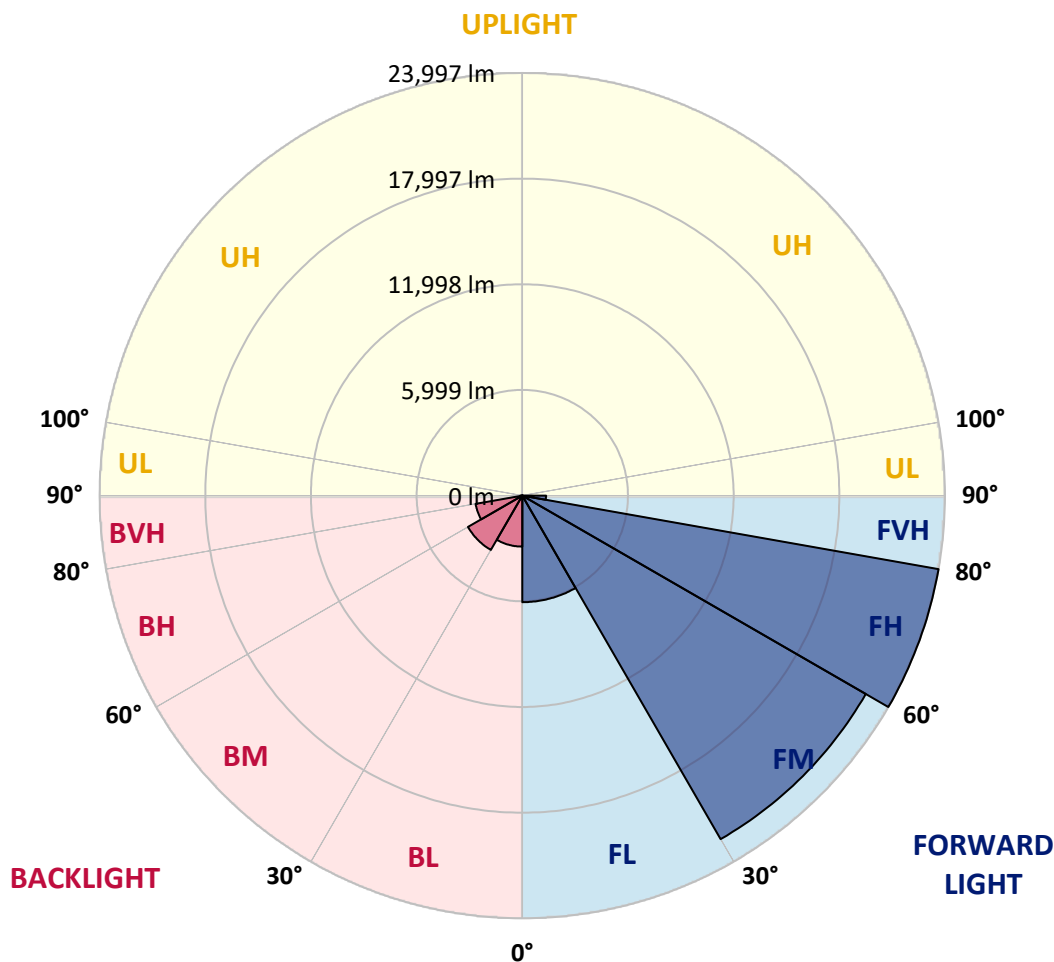
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6050.3	9.6			
FM	(30°-60°)	22517.5	35.6			
FH	(60°-80°)	23996.6	38.0			G5
FVH	(80°-90°)	1349.7	2.1			G5
BL	(0°-30°)	2893.6	4.6	B4/5000		
BM	(30°-60°)	3560.2	5.6	B3/5000		
BH	(60°-80°)	2692.0	4.3	B4/5000		G4/5000
BVH	(80°-90°)	112.0	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	17457.0	17457.0	17457.0	17457.0	17457.0	17457.0	17457.0	17457.0	17457.0	17457.0	17457.0
2.5°	18105.3	18154.6	18140.5	18122.9	18094.7	18017.2	17890.4	17869.2	17788.2	17615.6	17400.7
5°	17827.0	17869.2	17872.8	17897.4	17932.7	17918.6	17827.0	17816.4	17696.6	17464.1	17104.7
7.5°	16872.2	16928.6	17051.9	17189.3	17312.6	17428.9	17457.0	17474.7	17400.7	17132.9	16653.8
10°	15797.7	15854.0	15910.4	16114.7	16417.7	16706.6	16946.2	16977.9	16995.5	16748.9	16164.1
12.5°	14606.8	14723.1	14842.9	15145.9	15551.0	16005.5	16428.3	16495.2	16615.0	16428.3	15741.3
15°	13595.7	13715.5	13888.1	14159.4	14649.1	15304.4	15899.8	16009.0	16245.1	16150.0	15346.7
17.5°	12894.6	12936.9	13056.7	13366.7	13895.2	14585.7	15381.9	15600.4	15977.3	15952.7	15008.5
20°	12341.5	12394.3	12468.3	12658.6	13208.2	13937.4	14899.3	15181.1	15692.0	15776.5	14673.8
22.5°	12109.0	12147.7	12137.1	12239.3	12612.8	13345.6	14409.5	14744.2	15438.3	15656.7	14363.7
25°	12123.0	12158.3	12105.4	12080.8	12302.7	12824.1	13898.7	14325.0	15234.0	15575.7	14081.9
27.5°	12359.1	12383.8	12285.1	12186.5	12204.1	12500.0	13475.9	13948.0	15061.3	15610.9	13845.8
30°	12676.2	12722.0	12658.6	12538.8	12408.4	12422.5	13204.6	13669.7	14980.3	15734.2	13733.1
32.5°	13084.9	13127.1	13098.9	13003.8	12834.7	12648.0	13137.7	13567.5	14987.3	15984.4	13708.4
35°	13514.7	13599.2	13645.0	13638.0	13500.6	13176.5	13401.9	13757.8	15156.4	16403.6	13852.9
37.5°	14000.9	14071.3	14268.6	14395.5	14268.6	13891.6	13997.3	14244.0	15529.9	17009.6	14170.0
40°	14473.0	14578.7	14867.6	15262.1	15212.8	14881.6	14906.3	15068.4	16188.7	17911.5	14790.0
42.5°	14966.2	15093.0	15596.8	16181.7	16297.9	16040.7	16107.7	16252.1	17125.9	19162.2	15854.0
45°	15600.4	15751.9	16371.9	17101.2	17559.2	17400.7	17590.9	17661.4	18380.1	20789.9	17256.2
47.5°	16417.7	16593.9	17358.4	18267.4	18915.6	19060.1	19391.2	19349.0	19933.8	22717.1	19074.2
50°	17795.3	17893.9	18616.1	19542.7	20434.1	21085.9	21445.2	21512.1	21860.9	24591.4	21107.0
52.5°	19433.5	19521.6	20043.0	20853.3	21970.2	23351.2	24239.0	24020.6	24105.2	26874.3	23485.1
55°	21276.1	21424.1	21755.2	22294.3	23742.3	25775.1	27557.8	27610.7	26673.5	29058.7	25764.6
57.5°	22703.0	22953.1	23520.3	24288.4	26123.9	28470.3	30866.0	30901.3	29703.4	31391.0	28280.1
60°	21984.2	22280.2	23576.7	25447.5	29248.9	33173.7	34819.0	34618.1	32652.2	34047.4	31348.7
62.5°	18883.9	18936.8	20821.6	23745.8	30210.7	39466.0	40702.6	39853.5	36587.6	37415.5	34466.6
65°	12221.7	12567.0	14060.8	18158.1	27050.5	42957.4	51011.2	49048.8	42104.8	41238.1	37077.3
67.5°	7715.6	7627.5	8247.6	10368.5	18605.6	39881.7	59808.4	59498.4	49320.1	43651.4	36453.7
69°	6398.0	6496.6	6708.0	7948.2	12803.0	34050.9	60847.7	62989.8	52818.6	43461.2	34188.3
70°	5802.6	5848.4	6070.3	7046.2	9878.8	28519.6	59142.6	62894.7	54192.6	42664.9	32546.6
72.5°	4604.7	4601.2	4981.7	5862.5	7384.5	16280.3	48562.6	54604.8	52656.5	38958.6	26891.9
75°	3498.5	3554.8	3974.1	4960.5	6803.1	8895.9	33888.9	42051.9	42055.4	30770.9	16780.6
77.5°	2522.6	2557.8	3047.5	4164.3	6408.5	7211.8	22572.6	30161.4	28354.0	14099.5	5274.1
80°	1652.3	1673.5	2046.9	3297.6	5777.9	6803.1	13384.3	18461.1	13373.8	3741.5	1743.9
82.5°	905.4	1011.1	1250.7	2135.0	4636.4	6285.2	8134.9	9343.3	5016.9	1666.4	909.0
85°	454.5	482.7	704.6	1247.2	3029.9	5200.1	5665.2	5358.7	2589.5	827.9	472.1
87.5°	133.9	169.1	292.4	482.7	1229.6	2709.3	3153.2	2829.1	997.0	299.5	98.6
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°	17457.0	17457.0	17457.0	17457.0	17457.0	17457.0	17457.0	17457.0	17457.0	17457.0	17457.0
2.5°	17312.6	17249.2	16967.3	16713.7	16481.1	16234.5	16026.7	15843.5	15861.1	15864.6	15677.9
5°	16918.0	16773.6	16238.0	15737.8	15315.0	14779.5	14321.5	14025.5	13877.6	13680.3	13750.7
7.5°	16382.5	16104.2	15360.8	14529.3	13750.7	13056.7	12302.7	11784.8	11453.7	11133.0	11175.3
10°	15829.4	15381.9	14300.3	13201.1	12193.5	11083.7	10121.9	9297.5	8684.5	8455.5	8304.0
12.5°	15262.1	14673.8	13299.8	11837.7	10446.0	9117.8	7754.4	6870.1	6193.6	5834.3	5880.1
15°	14744.2	14029.1	12256.9	10474.2	8666.9	7085.0	5725.1	4883.0	4410.9	4312.3	4368.7
17.5°	14265.1	13327.9	11281.0	9149.5	7039.2	5312.9	4301.7	3826.1	3635.9	3583.0	3579.5
20°	13771.9	12732.5	10185.3	7733.2	5485.5	4118.5	3530.2	3308.2	3273.0	3294.1	3297.6
22.5°	13271.6	11996.2	9057.9	6327.5	4368.7	3368.1	3086.3	3026.4	3054.5	3103.9	3110.9
25°	12810.1	11348.0	7972.8	5094.4	3487.9	2959.4	2822.0	2822.0	2885.4	2959.4	2962.9
27.5°	12429.6	10720.8	6891.2	4044.5	2920.7	2663.5	2617.7	2642.3	2730.4	2786.8	2790.3
30°	12116.0	10136.0	5869.5	3241.3	2568.4	2427.4	2416.9	2459.1	2522.6	2575.4	2578.9
32.5°	11879.9	9621.6	4914.7	2723.4	2325.3	2247.7	2244.2	2275.9	2311.2	2325.3	2339.3
35°	11788.3	9195.3	4041.0	2395.7	2163.2	2113.9	2113.9	2110.3	2124.4	2131.5	2138.5
37.5°	11862.3	8867.7	3364.6	2184.3	2043.4	2008.2	1987.0	1965.9	1958.9	1958.9	1962.4
40°	12175.9	8695.1	2860.8	2046.9	1958.9	1906.0	1867.3	1842.6	1817.9	1825.0	1832.0
42.5°	12841.8	8726.8	2519.0	1955.3	1884.9	1810.9	1754.5	1726.3	1708.7	1729.9	1726.3
45°	13902.2	9043.8	2300.6	1891.9	1810.9	1715.8	1662.9	1634.7	1634.7	1666.4	1677.0
47.5°	15385.4	9649.8	2184.3	1842.6	1754.5	1641.8	1588.9	1567.8	1574.8	1627.7	1631.2
50°	17196.3	10703.2	2163.2	1817.9	1726.3	1588.9	1529.0	1507.9	1525.5	1581.9	1588.9
52.5°	19193.9	12059.6	2265.4	1821.5	1701.7	1557.2	1479.7	1448.0	1465.6	1511.4	1525.5
55°	21561.5	13757.8	2529.6	1835.5	1666.4	1539.6	1444.5	1374.0	1395.2	1426.9	1430.4
57.5°	23978.3	15899.8	2994.6	1839.1	1638.2	1507.9	1384.6	1293.0	1293.0	1314.1	1324.7
60°	26930.7	18232.1	3607.7	1842.6	1641.8	1462.1	1303.6	1201.4	1187.3	1197.9	1201.4
62.5°	29861.9	20183.9	3709.8	1832.0	1677.0	1416.3	1215.5	1109.8	1085.1	1081.6	1074.6
65°	31154.9	19821.1	3040.4	1782.7	1715.8	1388.1	1145.0	1021.7	979.4	965.3	965.3
67.5°	29048.1	16766.5	2286.5	1715.8	1691.1	1359.9	1078.1	947.7	898.4	870.2	870.2
69°	27068.1	14913.4	2054.0	1670.0	1627.7	1314.1	1035.8	909.0	849.1	817.4	806.8
70°	25539.1	13638.0	1955.3	1631.2	1567.8	1261.3	1004.1	880.8	813.8	778.6	771.6
72.5°	20381.2	10699.7	1712.2	1483.2	1335.3	1060.5	891.3	792.7	729.3	690.5	680.0
75°	11746.1	5799.0	1419.8	1289.5	1074.6	824.4	753.9	690.5	641.2	606.0	595.4
77.5°	3614.7	2240.7	1028.8	1018.2	789.2	637.7	602.5	577.8	542.6	503.8	496.8
80°	1522.0	1141.5	697.6	687.0	524.9	443.9	433.3	429.8	415.7	384.0	373.5
82.5°	835.0	644.7	486.2	422.8	317.1	257.2	267.8	271.3	260.7	229.0	207.9
85°	408.7	352.3	236.0	190.2	144.4	91.6	88.1	105.7	98.6	70.5	77.5
87.5°	81.0	98.6	63.4	28.2	14.1	0.0	0.0	0.0	0.0	0.0	0.0
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)