

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: P459421

Luminaire Tested: **GALN-SA8D-735-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459421
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-SA8D-735-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 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: 57678 lumens
Efficiency: N/A
Efficacy: 117.0 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

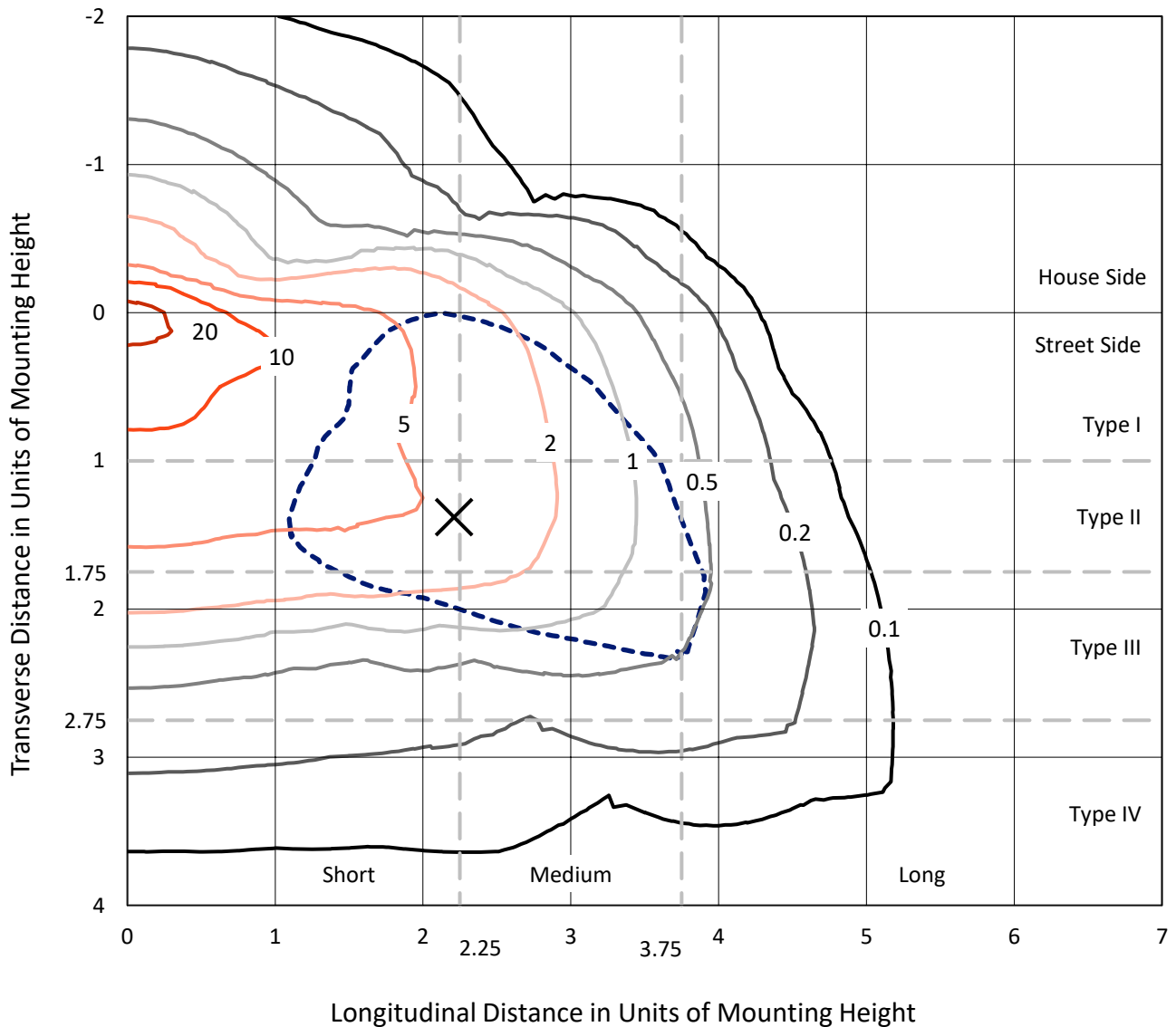
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

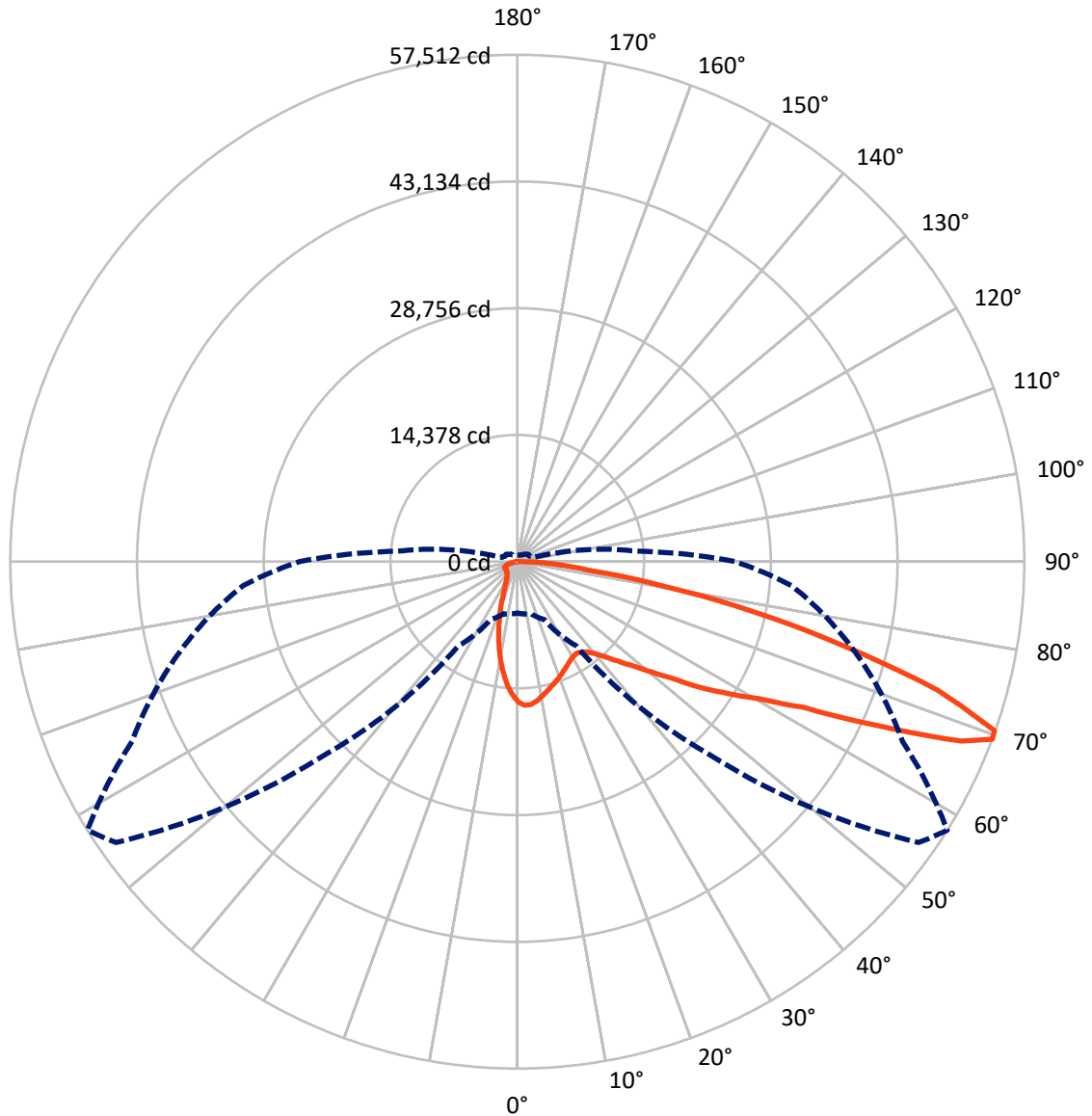
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.5 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	8452.7	0.0	8452.7
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	49225.3	0.0	49225.3
	% Fixture	85.3	0.0	85.3
Total	Lumens	57678.0	0.0	57678.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1353.6	2.3
10°-20°	2972.3	5.2
20°-30°	3840.2	6.7
30°-40°	4987.7	8.6
40°-50°	7251.4	12.6
50°-60°	11570.8	20.1
60°-70°	15457.1	26.8
70°-80°	8910.4	15.4
80°-90°	1334.6	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°	57678.0	100.0
0°-180°	57678.0	100.0

Coefficient of Utilization



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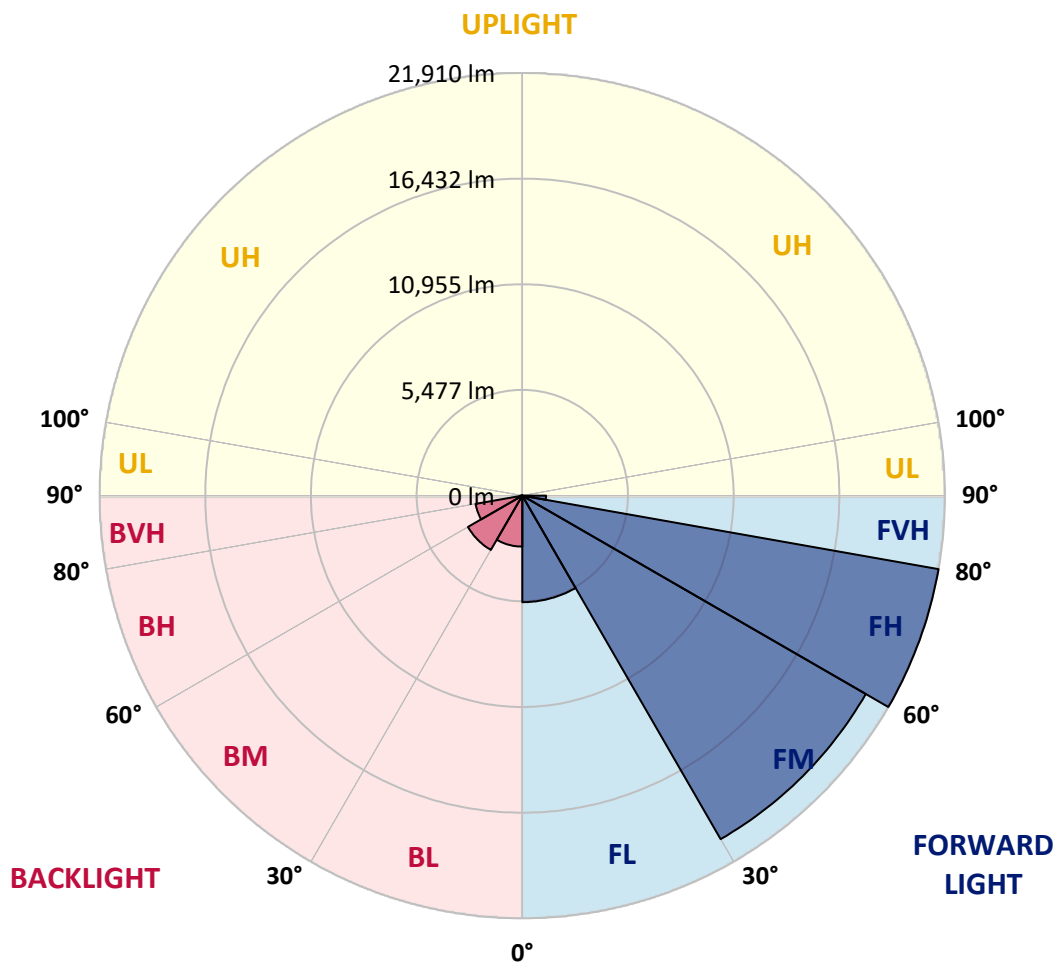
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5524.1	9.6			
FM	(30°-60°)	20559.2	35.6			
FH	(60°-80°)	21909.7	38.0			G5
FVH	(80°-90°)	1232.3	2.1			G5
BL	(0°-30°)	2642.0	4.6	B4/5000		
BM	(30°-60°)	3250.6	5.6	B3/5000		
BH	(60°-80°)	2457.9	4.3	B3/2500		G3/2500
BVH	(80°-90°)	102.2	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°	15938.8	15938.8	15938.8	15938.8	15938.8	15938.8	15938.8	15938.8	15938.8	15938.8	15938.8
2.5°	16530.7	16575.7	16562.9	16546.8	16521.0	16450.3	16334.5	16315.2	16241.2	16083.6	15887.4
5°	16276.6	16315.2	16318.4	16340.9	16373.1	16360.2	16276.6	16266.9	16157.6	15945.3	15617.2
7.5°	15404.8	15456.3	15568.9	15694.4	15806.9	15913.1	15938.8	15954.9	15887.4	15642.9	15205.4
10°	14423.7	14475.2	14526.7	14713.3	14989.9	15253.7	15472.4	15501.3	15517.4	15292.3	14758.3
12.5°	13336.5	13442.7	13552.0	13828.7	14198.6	14613.5	14999.5	15060.7	15170.0	14999.5	14372.3
15°	12413.3	12522.7	12680.3	12928.0	13375.1	13973.4	14517.0	14616.8	14832.3	14745.4	14012.0
17.5°	11773.2	11811.8	11921.1	12204.2	12686.7	13317.2	14044.2	14243.6	14587.8	14565.3	13703.2
20°	11268.2	11316.4	11384.0	11557.7	12059.5	12725.3	13603.5	13860.8	14327.2	14404.4	13397.6
22.5°	11055.8	11091.2	11081.6	11174.9	11515.8	12184.9	13156.4	13462.0	14095.6	14295.1	13114.5
25°	11068.7	11100.9	11052.6	11030.1	11232.8	11708.8	12689.9	13079.2	13909.1	14221.1	12857.2
27.5°	11284.2	11306.8	11216.7	11126.6	11142.7	11412.9	12303.9	12735.0	13751.5	14253.3	12641.7
30°	11573.7	11615.6	11557.7	11448.3	11329.3	11342.1	12056.2	12480.9	13677.5	14365.8	12538.8
32.5°	11946.9	11985.5	11959.7	11872.9	11718.5	11548.0	11995.1	12387.6	13683.9	14594.2	12516.2
35°	12339.3	12416.5	12458.3	12451.9	12326.5	12030.5	12236.4	12561.3	13838.3	14977.0	12648.1
37.5°	12783.2	12847.6	13027.7	13143.5	13027.7	12683.5	12780.0	13005.2	14179.3	15530.3	12937.6
40°	13214.3	13310.8	13574.5	13934.8	13889.8	13587.4	13609.9	13757.9	14780.8	16353.8	13503.8
42.5°	13664.6	13780.4	14240.4	14774.4	14880.5	14645.7	14706.8	14838.7	15636.5	17495.7	14475.2
45°	14243.6	14381.9	14948.1	15613.9	16032.1	15887.4	16061.1	16125.4	16781.6	18981.8	15755.5
47.5°	14989.9	15150.7	15848.8	16678.7	17270.5	17402.4	17704.8	17666.2	18200.2	20741.4	17415.3
50°	16247.6	16337.7	16997.1	17843.1	18656.9	19252.0	19580.1	19641.3	19959.7	22452.7	19271.3
52.5°	17743.4	17823.8	18299.9	19039.7	20059.4	21320.4	22131.0	21931.6	22008.8	24537.1	21442.6
55°	19425.7	19560.8	19863.2	20355.4	21677.4	23533.5	25161.1	25209.4	24353.7	26531.5	23523.8
57.5°	20728.5	20956.9	21474.8	22176.0	23851.9	25994.3	28181.6	28213.8	27120.1	28660.9	25820.6
60°	20072.3	20342.5	21526.3	23234.3	26705.2	30288.6	31790.8	31607.4	29812.5	31086.3	28622.3
62.5°	17241.6	17289.8	19010.8	21680.7	27583.3	36033.6	37162.7	36387.5	33405.6	34161.5	31469.1
65°	11158.8	11474.0	12837.9	16578.9	24697.9	39221.4	46574.8	44783.1	38443.0	37651.6	33852.7
67.5°	7044.6	6964.2	7530.3	9466.8	16987.5	36413.2	54607.0	54323.9	45030.8	39855.1	33283.3
69°	5841.6	5931.6	6124.6	7256.9	11689.5	31089.5	55555.9	57511.6	48225.0	39681.4	31215.0
70°	5297.9	5339.7	5542.4	6433.4	9019.7	26039.3	53999.0	57424.8	49479.5	38954.4	29716.0
72.5°	4204.2	4201.0	4548.4	5352.6	6742.2	14864.4	44339.2	49855.9	48077.0	35570.4	24553.2
75°	3194.2	3245.7	3628.5	4529.1	6211.5	8122.2	30941.6	38394.7	38397.9	28094.8	15321.2
77.5°	2303.2	2335.3	2782.5	3802.2	5851.2	6584.6	20609.5	27538.3	25888.1	12873.3	4815.4
80°	1508.6	1527.9	1868.9	3010.8	5275.4	6211.5	12220.3	16855.6	12210.6	3416.2	1592.3
82.5°	826.7	923.2	1141.9	1949.3	4233.2	5738.6	7427.4	8530.7	4580.6	1521.5	829.9
85°	415.0	440.7	643.3	1138.7	2766.4	4747.9	5172.5	4892.6	2364.3	755.9	431.0
87.5°	122.2	154.4	267.0	440.7	1122.6	2473.7	2879.0	2583.0	910.3	273.4	90.1
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°	15938.8	15938.8	15938.8	15938.8	15938.8	15938.8	15938.8	15938.8	15938.8	15938.8	15938.8
2.5°	15806.9	15749.0	15491.7	15260.1	15047.8	14822.6	14632.8	14465.6	14481.7	14484.9	14314.4
5°	15446.7	15314.8	14825.8	14369.1	13983.1	13494.1	13075.9	12805.7	12670.6	12490.5	12554.8
7.5°	14957.7	14703.6	14024.9	13265.7	12554.8	11921.1	11232.8	10759.9	10457.5	10164.8	10203.4
10°	14452.7	14044.2	13056.6	12053.0	11133.1	10119.8	9241.6	8488.9	7929.2	7720.1	7581.8
12.5°	13934.8	13397.6	12143.1	10808.2	9537.6	8324.9	7080.0	6272.6	5655.0	5326.9	5368.7
15°	13462.0	12809.0	11191.0	9563.3	7913.1	6468.8	5227.2	4458.4	4027.3	3937.3	3988.7
17.5°	13024.5	12168.8	10299.9	8353.8	6427.0	4850.8	3927.6	3493.4	3319.6	3271.4	3268.2
20°	12574.1	11625.2	9299.5	7060.7	5008.4	3760.3	3223.1	3020.5	2988.3	3007.6	3010.8
22.5°	12117.4	10952.9	8270.2	5777.2	3988.7	3075.2	2817.8	2763.2	2788.9	2833.9	2840.4
25°	11696.0	10361.0	7279.4	4651.4	3184.5	2702.0	2576.6	2576.6	2634.5	2702.0	2705.3
27.5°	11348.6	9788.5	6291.9	3692.8	2666.7	2431.8	2390.0	2412.5	2493.0	2544.4	2547.6
30°	11062.3	9254.5	5359.0	2959.4	2345.0	2216.3	2206.7	2245.3	2303.2	2351.4	2354.6
32.5°	10846.8	8784.8	4487.3	2486.5	2123.0	2052.3	2049.0	2078.0	2110.2	2123.0	2135.9
35°	10763.1	8395.6	3689.6	2187.4	1975.1	1930.0	1930.0	1926.8	1939.7	1946.1	1952.5
37.5°	10830.7	8096.5	3072.0	1994.4	1865.7	1833.5	1814.2	1794.9	1788.5	1788.5	1791.7
40°	11117.0	7938.9	2612.0	1868.9	1788.5	1740.2	1704.9	1682.3	1659.8	1666.3	1672.7
42.5°	11724.9	7967.8	2300.0	1785.3	1720.9	1653.4	1601.9	1576.2	1560.1	1579.4	1576.2
45°	12693.2	8257.3	2100.5	1727.4	1653.4	1566.5	1518.3	1492.6	1492.6	1521.5	1531.2
47.5°	14047.4	8810.6	1994.4	1682.3	1601.9	1499.0	1450.7	1431.4	1437.9	1486.1	1489.3
50°	15700.8	9772.4	1975.1	1659.8	1576.2	1450.7	1396.1	1376.8	1392.8	1444.3	1450.7
52.5°	17524.7	11010.8	2068.3	1663.0	1553.7	1421.8	1351.0	1322.1	1338.2	1380.0	1392.8
55°	19686.3	12561.3	2309.6	1675.9	1521.5	1405.7	1318.9	1254.5	1273.8	1302.8	1306.0
57.5°	21893.0	14517.0	2734.2	1679.1	1495.8	1376.8	1264.2	1180.5	1180.5	1199.8	1209.5
60°	24588.6	16646.5	3293.9	1682.3	1499.0	1334.9	1190.2	1096.9	1084.0	1093.7	1096.9
62.5°	27264.9	18428.6	3387.2	1672.7	1531.2	1293.1	1109.8	1013.3	990.7	987.5	981.1
65°	28445.4	18097.2	2776.0	1627.7	1566.5	1267.4	1045.4	932.8	894.2	881.4	881.4
67.5°	26521.8	15308.3	2087.6	1566.5	1544.0	1241.7	984.3	865.3	820.3	794.5	794.5
69°	24714.0	13616.4	1875.3	1524.7	1486.1	1199.8	945.7	829.9	775.2	746.3	736.6
70°	23318.0	12451.9	1785.3	1489.3	1431.4	1151.6	916.8	804.2	743.1	710.9	704.5
72.5°	18608.7	9769.2	1563.3	1354.2	1219.1	968.2	813.8	723.8	665.9	630.5	620.8
75°	10724.5	5294.7	1296.3	1177.3	981.1	752.7	688.4	630.5	585.4	553.3	543.6
77.5°	3300.3	2045.8	939.3	929.6	720.5	582.2	550.1	527.5	495.4	460.0	453.6
80°	1389.6	1042.2	636.9	627.3	479.3	405.3	395.7	392.4	379.6	350.6	341.0
82.5°	762.4	588.7	443.9	386.0	289.5	234.8	244.5	247.7	238.0	209.1	189.8
85°	373.1	321.7	215.5	173.7	131.9	83.6	80.4	96.5	90.1	64.3	70.8
87.5°	74.0	90.1	57.9	25.7	12.9	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)