

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: P457217

Luminaire Tested: **GALN-SA8C-740-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457217
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-SA8C-740-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 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: 56269 lumens
Efficiency: N/A
Efficacy: 131.2 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

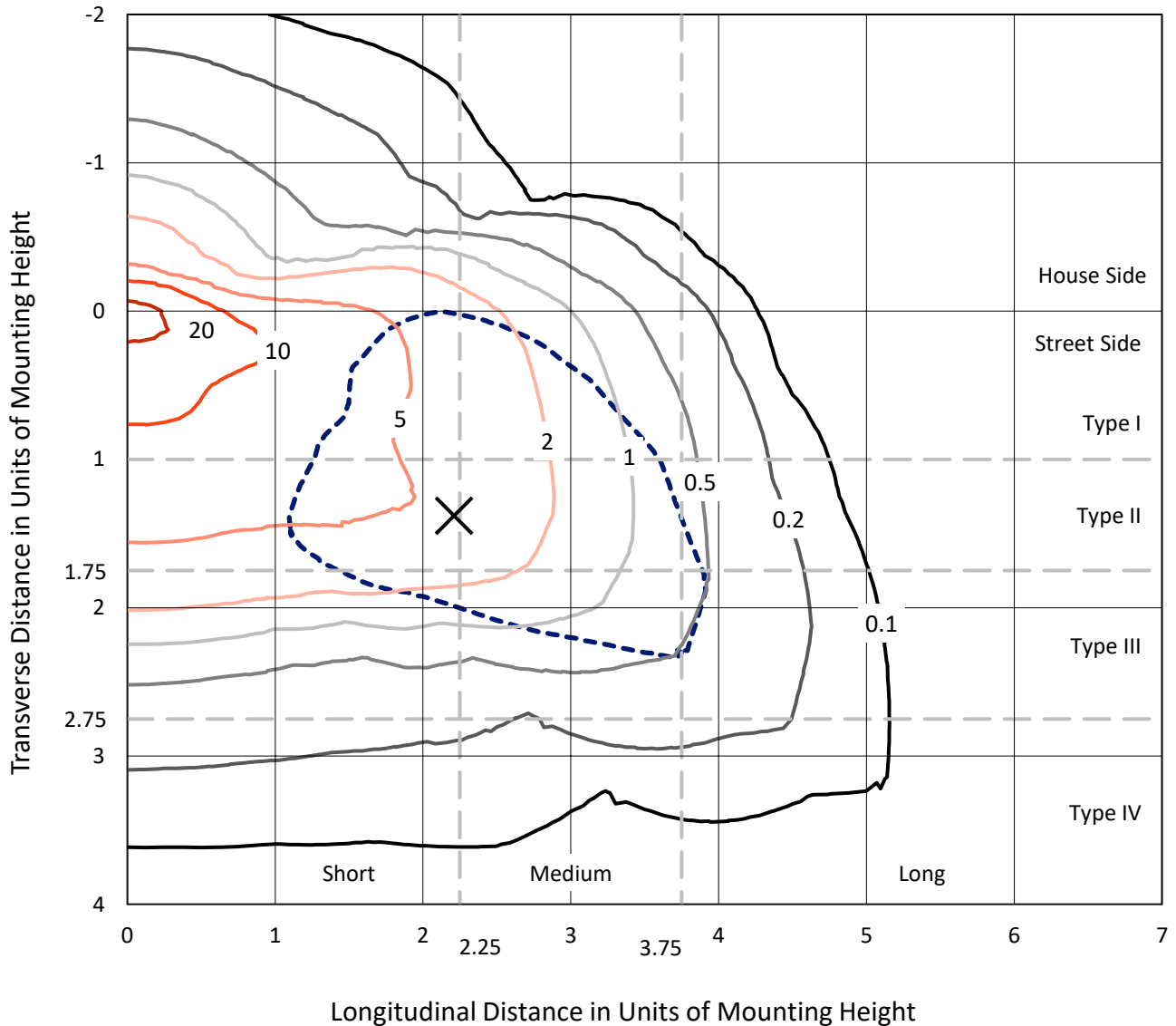
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

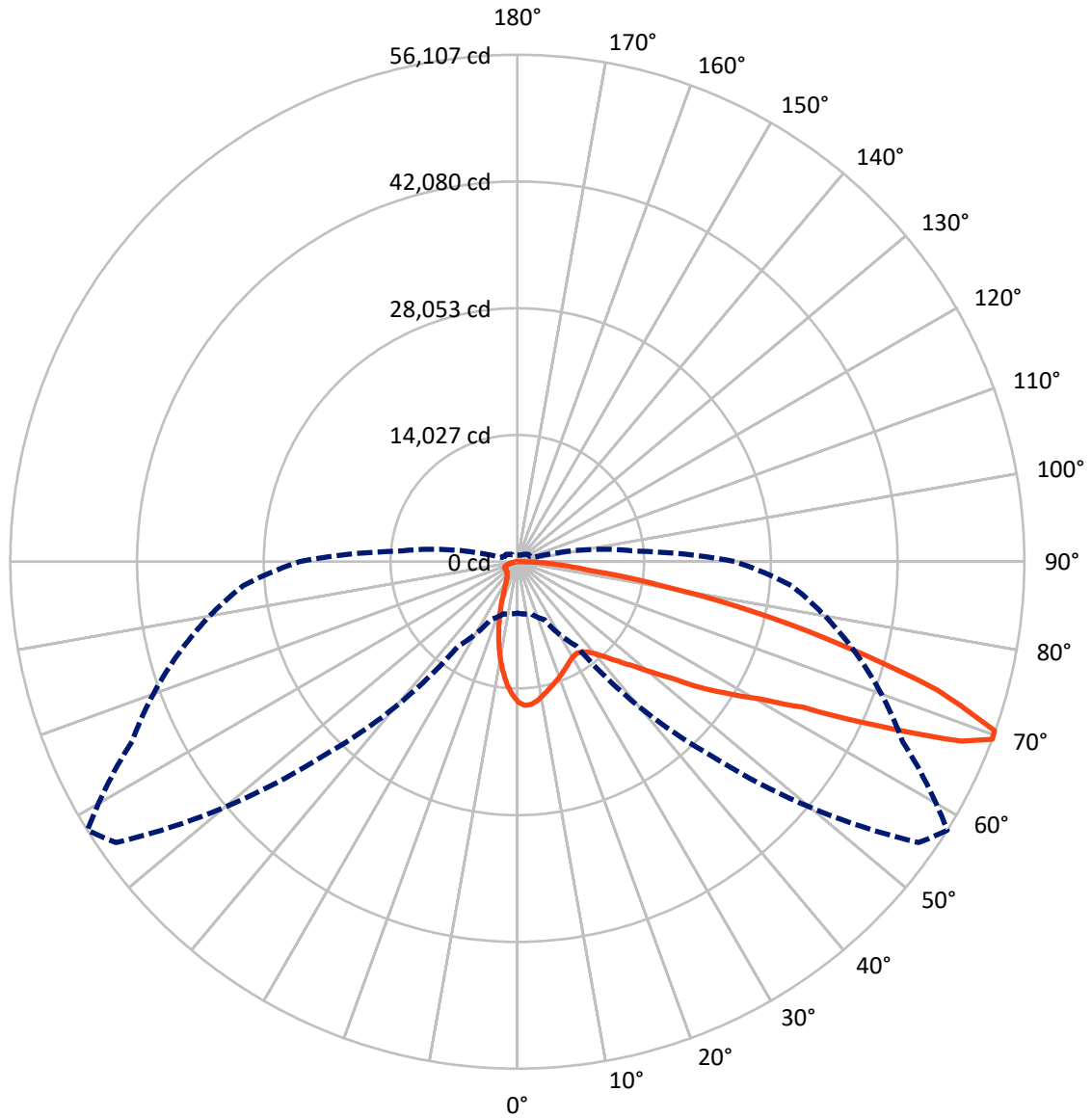
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.9 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	8246.2	0.0	8246.2
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	48022.8	0.0	48022.8
	% Fixture	85.3	0.0	85.3
Total	Lumens	56269.0	0.0	56269.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1320.5	2.3
10°-20°	2899.7	5.2
20°-30°	3746.4	6.7
30°-40°	4865.8	8.6
40°-50°	7074.2	12.6
50°-60°	11288.1	20.1
60°-70°	15079.5	26.8
70°-80°	8692.7	15.4
80°-90°	1302.0	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°	56269.0	100.0
0°-180°	56269.0	100.0

Coefficient of Utilization



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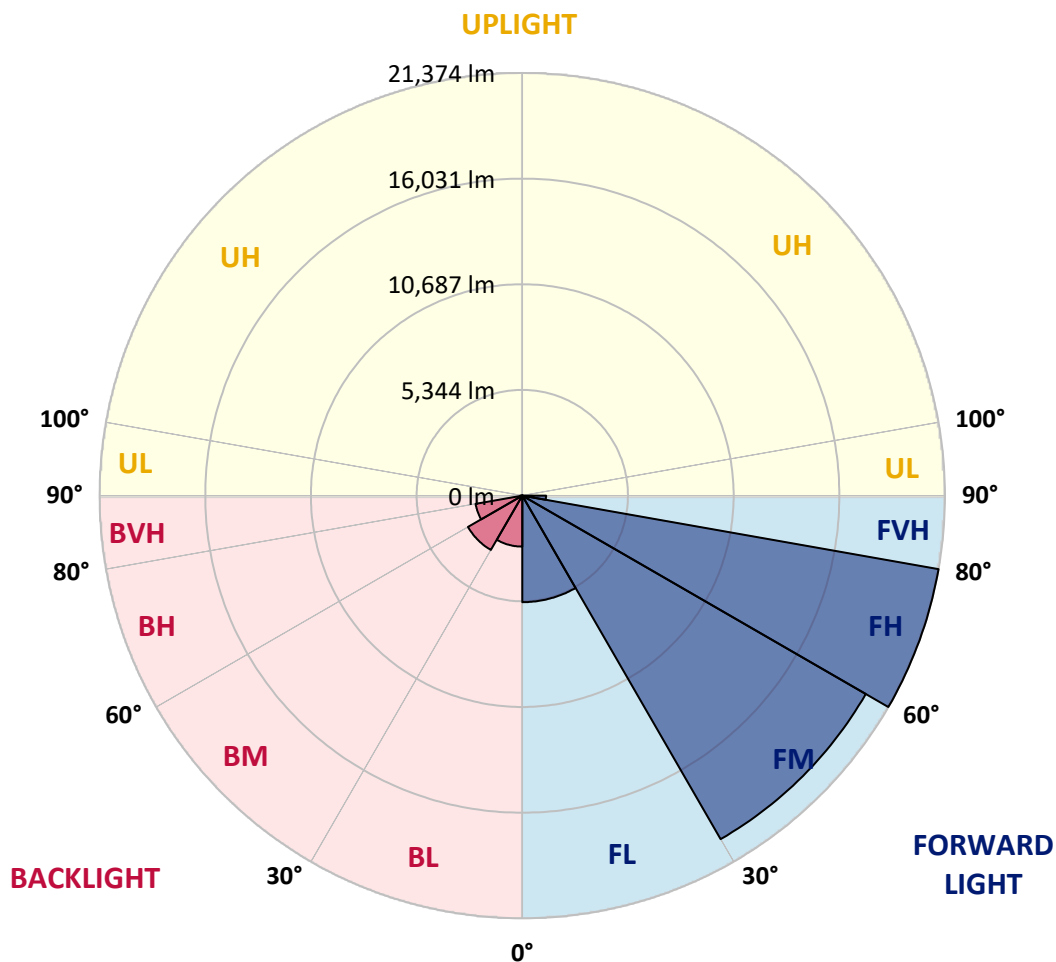
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5389.1	9.6			
FM	(30°-60°)	20057.0	35.6			
FH	(60°-80°)	21374.4	38.0			G5
FVH	(80°-90°)	1202.2	2.1			G5
BL	(0°-30°)	2577.4	4.6	B4/5000		
BM	(30°-60°)	3171.2	5.6	B3/5000		
BH	(60°-80°)	2397.8	4.3	B3/2500		G3/2500
BVH	(80°-90°)	99.8	0.2			G1/100
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°	15549.5	15549.5	15549.5	15549.5	15549.5	15549.5	15549.5	15549.5	15549.5	15549.5	15549.5
2.5°	16126.9	16170.8	16158.3	16142.6	16117.5	16048.4	15935.4	15916.6	15844.4	15690.7	15499.2
5°	15879.0	15916.6	15919.8	15941.7	15973.1	15960.6	15879.0	15869.5	15762.9	15555.7	15235.6
7.5°	15028.5	15078.7	15188.6	15311.0	15420.8	15524.4	15549.5	15565.1	15499.2	15260.7	14834.0
10°	14071.4	14121.6	14171.8	14353.8	14623.7	14881.0	15094.4	15122.7	15138.4	14918.7	14397.8
12.5°	13010.7	13114.3	13221.0	13490.8	13851.7	14256.5	14633.1	14692.7	14799.4	14633.1	14021.2
15°	12110.1	12216.8	12370.5	12612.2	13048.4	13632.1	14162.4	14259.7	14469.9	14385.2	13669.7
17.5°	11485.6	11523.2	11629.9	11906.1	12376.8	12991.9	13701.1	13895.7	14231.4	14209.5	13368.5
20°	10992.9	11040.0	11105.9	11275.3	11764.9	12414.5	13271.2	13522.2	13977.3	14052.6	13070.3
22.5°	10785.8	10820.3	10810.9	10901.9	11234.5	11887.3	12835.0	13133.1	13751.3	13945.9	12794.2
25°	10798.3	10829.7	10782.6	10760.7	10958.4	11422.8	12379.9	12759.7	13569.3	13873.7	12543.1
27.5°	11008.6	11030.5	10942.7	10854.8	10870.5	11134.1	12003.4	12423.9	13415.5	13905.1	12332.9
30°	11291.0	11331.8	11275.3	11168.6	11052.5	11065.1	11761.7	12176.0	13343.3	14014.9	12232.4
32.5°	11655.0	11692.7	11667.6	11582.9	11432.2	11265.9	11702.1	12085.0	13349.6	14237.7	12210.5
35°	12037.9	12113.2	12154.0	12147.7	12025.3	11736.6	11937.5	12254.4	13500.3	14611.2	12339.1
37.5°	12470.9	12533.7	12709.4	12822.4	12709.4	12373.7	12467.8	12687.5	13832.9	15150.9	12621.6
40°	12891.5	12985.6	13242.9	13594.4	13550.5	13255.5	13277.4	13421.8	14419.7	15954.3	13173.9
42.5°	13330.8	13443.8	13892.5	14413.5	14517.0	14287.9	14347.6	14476.2	15254.5	17068.3	14121.6
45°	13895.7	14030.6	14582.9	15232.5	15640.5	15499.2	15668.7	15731.5	16371.6	18518.1	15370.6
47.5°	14623.7	14780.6	15461.6	16271.2	16848.6	16977.3	17272.3	17234.6	17755.6	20234.7	16989.9
50°	15850.7	15938.6	16581.9	17407.2	18201.2	18781.7	19101.8	19161.5	19472.1	21904.2	18800.6
52.5°	17310.0	17388.4	17852.8	18574.6	19569.4	20799.6	21590.4	21395.8	21471.1	23937.7	20918.8
55°	18951.2	19083.0	19378.0	19858.1	21147.9	22958.6	24546.5	24593.6	23758.8	25883.3	22949.2
57.5°	20222.1	20444.9	20950.2	21634.3	23269.3	25359.3	27493.2	27524.6	26457.6	27960.8	25189.8
60°	19582.0	19845.6	21000.4	22666.7	26052.8	29548.7	31014.2	30835.3	29084.2	30326.9	27923.1
62.5°	16820.4	16867.5	18546.4	21151.0	26909.5	35153.4	36254.9	35498.6	32589.5	33327.0	30700.4
65°	10886.2	11193.7	12524.3	16173.9	24094.6	38263.3	45437.1	43689.1	37503.8	36731.9	33025.7
67.5°	6872.5	6794.1	7346.4	9235.5	16572.5	35523.7	53273.0	52996.8	43930.7	38881.5	32470.3
69°	5698.9	5786.7	5975.0	7079.6	11404.0	30330.1	54198.7	56106.7	47046.9	38712.0	30452.5
70°	5168.5	5209.3	5407.0	6276.3	8799.3	25403.2	52679.9	56022.0	48270.8	38002.8	28990.1
72.5°	4101.5	4098.4	4437.3	5221.9	6577.5	14501.3	43256.0	48637.9	46902.6	34701.5	23953.4
75°	3116.2	3166.4	3539.8	4418.5	6059.7	7923.8	30185.7	37456.8	37459.9	27408.5	14946.9
77.5°	2246.9	2278.3	2714.5	3709.3	5708.3	6423.8	20106.0	26865.6	25255.7	12558.8	4697.8
80°	1471.8	1490.6	1823.3	2937.3	5146.5	6059.7	11921.8	16443.8	11912.4	3332.7	1553.4
82.5°	806.5	900.6	1114.0	1901.7	4129.8	5598.4	7246.0	8322.3	4468.7	1484.3	809.6
85°	404.8	429.9	627.6	1110.9	2698.8	4631.9	5046.1	4773.1	2306.5	737.5	420.5
87.5°	119.2	150.6	260.5	429.9	1095.2	2413.2	2808.6	2519.9	888.1	266.7	87.9
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°	15549.5	15549.5	15549.5	15549.5	15549.5	15549.5	15549.5	15549.5	15549.5	15549.5	15549.5
2.5°	15420.8	15364.3	15113.3	14887.3	14680.2	14460.5	14275.4	14112.2	14127.9	14131.0	13964.7
5°	15069.3	14940.7	14463.7	14018.0	13641.5	13164.5	12756.5	12492.9	12361.1	12185.4	12248.1
7.5°	14592.3	14344.4	13682.3	12941.7	12248.1	11629.9	10958.4	10497.1	10202.1	9916.5	9954.2
10°	14099.6	13701.1	12737.7	11758.6	10861.1	9872.6	9015.9	8281.5	7735.5	7531.5	7396.6
12.5°	13594.4	13070.3	11846.5	10544.1	9304.6	8121.5	6907.0	6119.4	5516.8	5196.8	5237.5
15°	13133.1	12496.1	10917.6	9329.7	7719.8	6310.8	5099.5	4349.5	3928.9	3841.1	3891.3
17.5°	12706.3	11871.6	10048.3	8149.7	6270.0	4732.3	3831.7	3408.0	3238.6	3191.5	3188.3
20°	12267.0	11341.2	9072.3	6888.2	4886.1	3668.5	3144.4	2946.7	2915.3	2934.2	2937.3
22.5°	11821.4	10685.3	8068.1	5636.1	3891.3	3000.1	2749.0	2695.7	2720.8	2764.7	2771.0
25°	11410.3	10107.9	7101.6	4537.7	3106.8	2636.0	2513.6	2513.6	2570.1	2636.0	2639.2
27.5°	11071.3	9549.3	6138.2	3602.6	2601.5	2372.4	2331.6	2353.6	2432.1	2482.3	2485.4
30°	10792.0	9028.4	5228.1	2887.1	2287.7	2162.2	2152.8	2190.4	2246.9	2294.0	2297.1
32.5°	10581.8	8570.2	4377.7	2425.8	2071.2	2002.1	1999.0	2027.2	2058.6	2071.2	2083.7
35°	10500.2	8190.5	3599.4	2133.9	1926.8	1882.9	1882.9	1879.7	1892.3	1898.6	1904.8
37.5°	10566.1	7898.7	2996.9	1945.6	1820.1	1788.7	1769.9	1751.1	1744.8	1744.8	1747.9
40°	10845.4	7744.9	2548.2	1823.3	1744.8	1697.7	1663.2	1641.2	1619.3	1625.6	1631.8
42.5°	11438.5	7773.2	2243.8	1741.7	1678.9	1613.0	1562.8	1537.7	1522.0	1540.8	1537.7
45°	12383.1	8055.6	2049.2	1685.2	1613.0	1528.3	1481.2	1456.1	1456.1	1484.3	1493.8
47.5°	13704.2	8595.4	1945.6	1641.2	1562.8	1462.4	1415.3	1396.5	1402.7	1449.8	1453.0
50°	15317.2	9533.7	1926.8	1619.3	1537.7	1415.3	1362.0	1343.1	1358.8	1409.0	1415.3
52.5°	17096.6	10741.8	2017.8	1622.4	1515.7	1387.1	1318.0	1289.8	1305.5	1346.3	1358.8
55°	19205.4	12254.4	2253.2	1635.0	1484.3	1371.4	1286.6	1223.9	1242.7	1270.9	1274.1
57.5°	21358.1	14162.4	2667.4	1638.1	1459.2	1343.1	1233.3	1151.7	1151.7	1170.5	1179.9
60°	23987.9	16239.8	3213.4	1641.2	1462.4	1302.3	1161.1	1070.1	1057.6	1067.0	1070.1
62.5°	26598.8	17978.4	3304.5	1631.8	1493.8	1261.5	1082.7	988.5	966.5	963.4	957.1
65°	27750.5	17655.1	2708.2	1587.9	1528.3	1236.4	1019.9	910.1	872.4	859.8	859.8
67.5°	25873.9	14934.4	2036.6	1528.3	1506.3	1211.3	960.3	844.2	800.2	775.1	775.1
69°	24110.3	13283.7	1829.5	1487.5	1449.8	1170.5	922.6	809.6	756.3	728.0	718.6
70°	22748.3	12147.7	1741.7	1453.0	1396.5	1123.5	894.4	784.5	724.9	693.5	687.3
72.5°	18154.1	9530.5	1525.1	1321.2	1189.4	944.6	793.9	706.1	649.6	615.1	605.7
75°	10462.5	5165.4	1264.7	1148.6	957.1	734.3	671.6	615.1	571.1	539.8	530.3
77.5°	3219.7	1995.9	916.3	906.9	702.9	568.0	536.6	514.7	483.3	448.8	442.5
80°	1355.7	1016.8	621.4	611.9	467.6	395.4	386.0	382.9	370.3	342.1	332.6
82.5°	743.7	574.3	433.1	376.6	282.4	229.1	238.5	241.6	232.2	204.0	185.1
85°	364.0	313.8	210.3	169.5	128.7	81.6	78.5	94.1	87.9	62.8	69.0
87.5°	72.2	87.9	56.5	25.1	12.6	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)