

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: P459390

Luminaire Tested: **GALN-SA8C-735-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459390
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-735-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52789 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

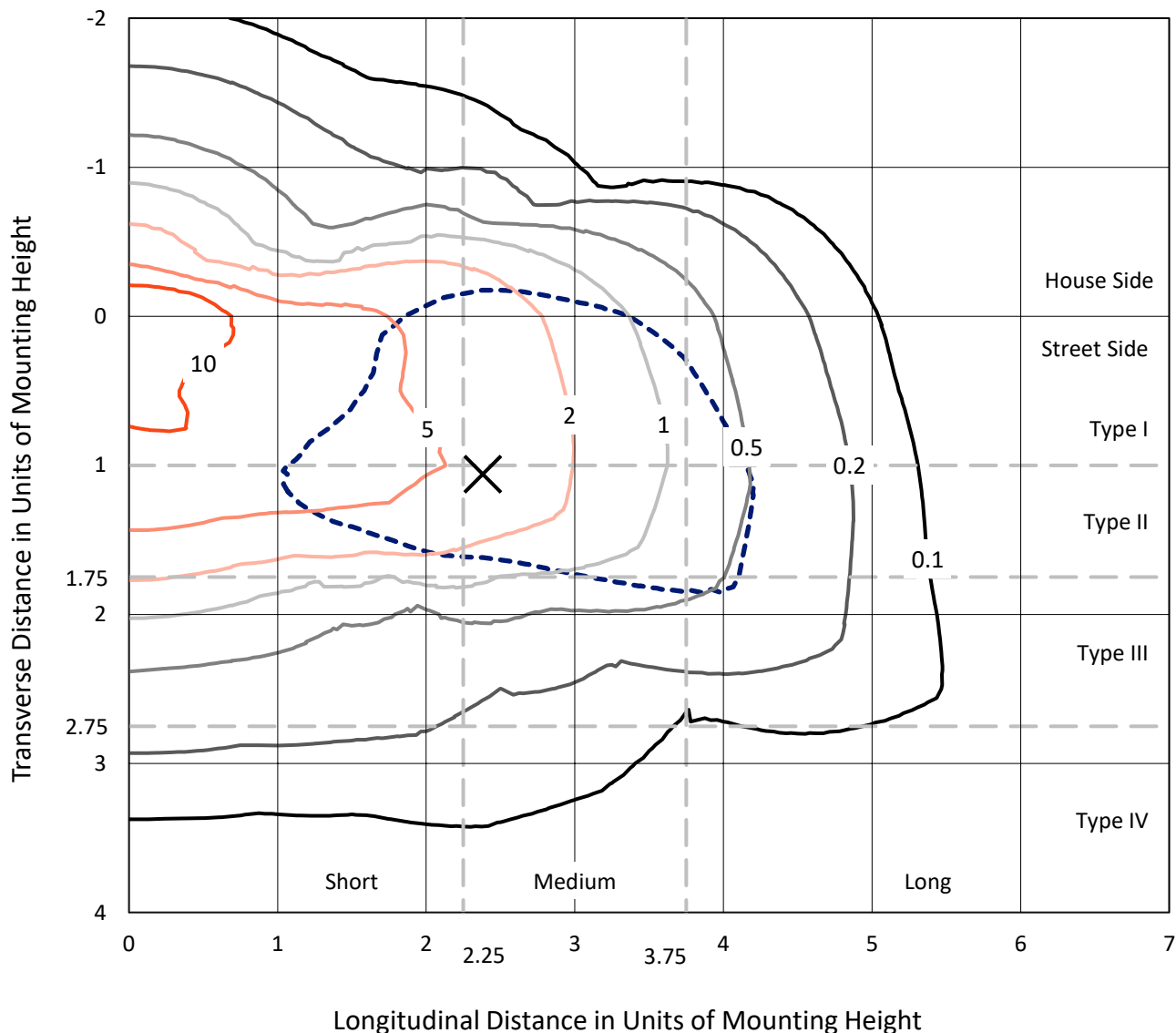
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

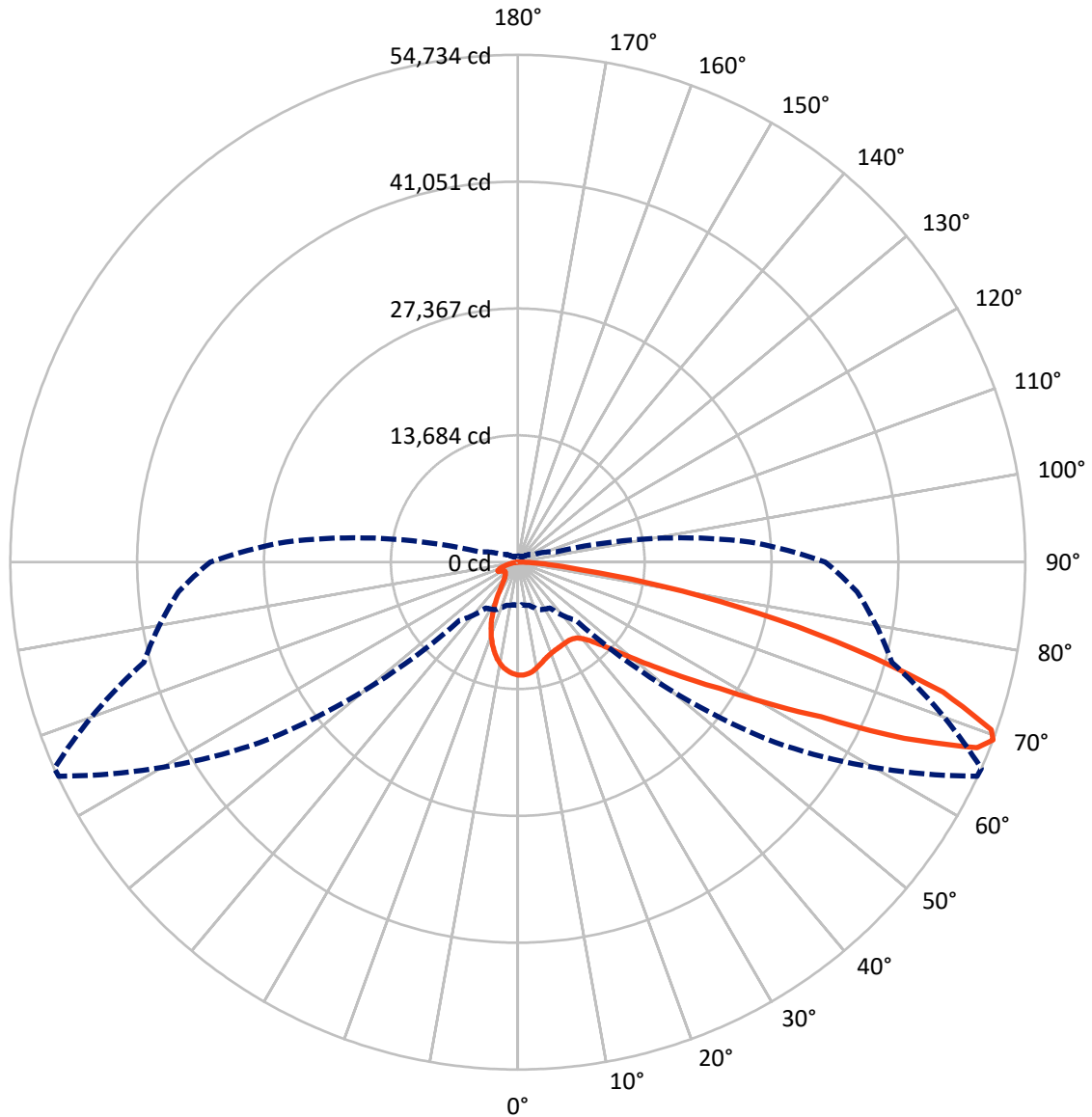
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9927.6	0.0	9927.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	42861.4	0.0	42861.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	52789.0	0.0	52789.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1058.6	2.0
10°-20°	2510.9	4.8
20°-30°	3418.3	6.5
30°-40°	4593.5	8.7
40°-50°	6858.8	13.0
50°-60°	10910.0	20.7
60°-70°	13418.8	25.4
70°-80°	8730.8	16.5
80°-90°	1289.3	2.4
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°	52789.0	100.0
0°-180°	52789.0	100.0

Coefficient of Utilization



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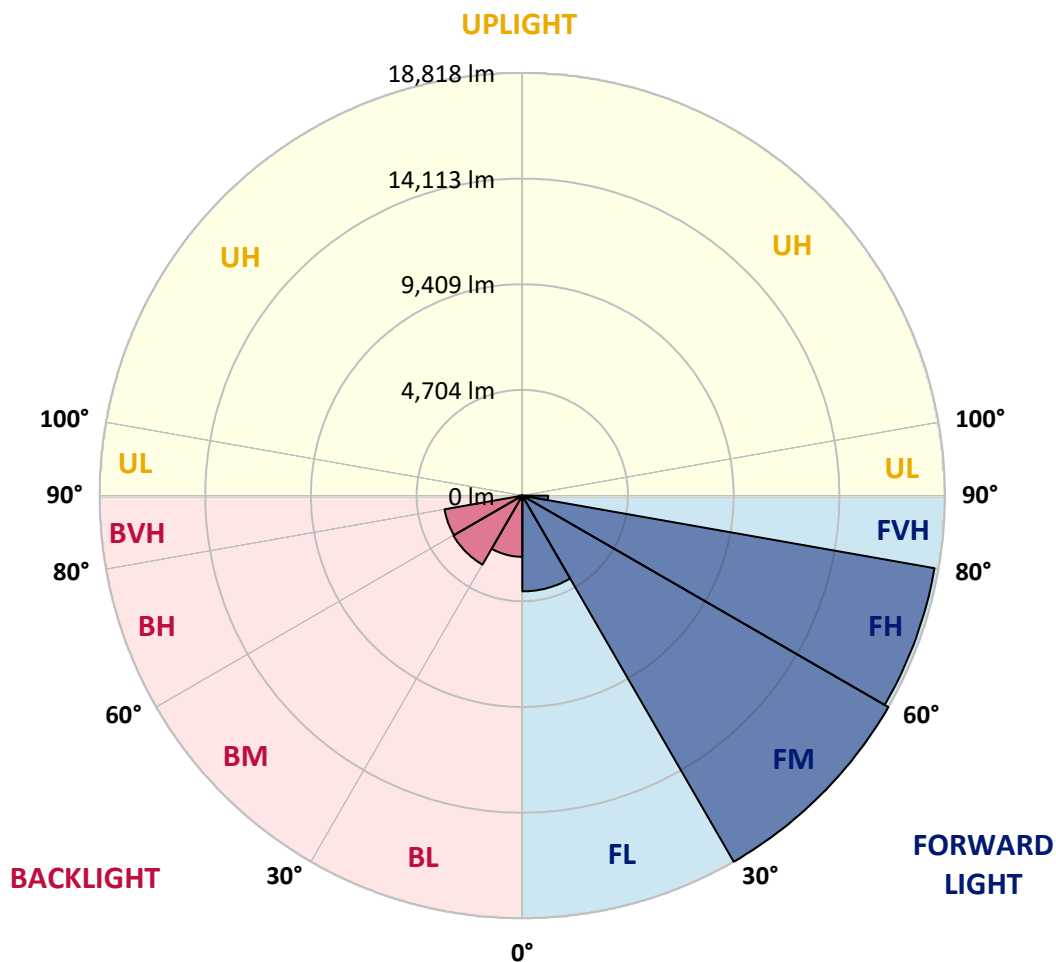
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4262.7	8.1			
FM	(30°-60°)	18817.7	35.6			
FH	(60°-80°)	18634.8	35.3			G5
FVH	(80°-90°)	1146.2	2.2			G5
BL	(0°-30°)	2725.2	5.2	B4/5000		
BM	(30°-60°)	3544.6	6.7	B3/5000		
BH	(60°-80°)	3514.8	6.7	B4/5000		G4/5000
BVH	(80°-90°)	143.0	0.3			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°	65°	66°	75°	85°
0°	12190.4	12190.4	12190.4	12190.4	12190.4	12190.4	12190.4	12190.4	12190.4	12190.4	12190.4
2.5°	11763.6	11810.4	11863.0	11921.5	12032.6	12094.0	12137.8	12187.5	12193.4	12219.7	12199.2
5°	10895.4	10950.9	11029.9	11141.0	11307.6	11567.8	11836.7	12056.0	12082.3	12205.1	12240.1
7.5°	10170.4	10202.6	10266.9	10445.2	10682.0	10971.4	11363.1	11807.5	11871.8	12164.1	12266.5
10°	9579.9	9612.0	9688.0	9872.2	10106.1	10468.6	10898.3	11483.0	11535.6	12038.4	12272.3
12.5°	9138.5	9167.7	9249.5	9430.8	9699.7	10038.8	10512.4	11132.2	11208.2	11871.8	12216.8
15°	8802.3	8857.8	8925.0	9074.1	9357.7	9685.1	10144.1	10810.6	10872.0	11696.4	12178.8
17.5°	8659.0	8685.3	8732.1	8869.5	9077.1	9398.6	9860.5	10559.2	10632.3	11573.6	12170.0
20°	8664.9	8691.2	8699.9	8776.0	8925.0	9202.8	9658.8	10360.4	10448.1	11465.5	12184.6
22.5°	8863.7	8866.6	8834.4	8808.1	8866.6	9097.5	9515.6	10211.3	10313.6	11418.7	12196.3
25°	9170.6	9223.2	9176.5	9053.7	8945.5	9056.6	9460.0	10129.5	10225.9	11351.4	12181.7
27.5°	9667.6	9676.3	9638.3	9471.7	9191.1	9109.2	9436.6	10068.1	10149.9	11301.7	12108.6
30°	10334.1	10307.8	10272.7	10088.5	9647.1	9310.9	9486.3	10012.5	10097.3	11228.7	12020.9
32.5°	11009.4	11091.3	11059.1	10842.8	10269.8	9702.7	9647.1	10006.7	10076.9	11173.1	11924.4
35°	11725.6	11763.6	11915.7	11804.6	11217.0	10337.0	9948.2	10097.3	10152.9	11176.0	11857.2
37.5°	12286.9	12389.2	12745.9	12842.4	12289.8	11176.0	10436.4	10354.6	10378.0	11319.3	11883.5
40°	12965.1	13140.5	13599.5	13994.2	13631.7	12266.5	11266.7	10831.1	10860.3	11664.2	12056.0
42.5°	13824.6	13947.4	14564.2	15099.2	15040.7	13707.7	12272.3	11611.6	11626.2	12351.2	12538.3
45°	14830.2	15005.7	15698.5	16502.4	16639.8	15338.9	13725.2	12792.7	12783.9	13418.3	13438.7
47.5°	16116.5	16224.7	16911.7	17788.7	18344.1	17388.2	15488.0	14488.2	14394.7	14973.5	14806.9
50°	17300.5	17470.1	17990.4	18949.3	20332.0	19788.3	17806.2	16686.6	16467.3	17008.2	16727.5
52.5°	17797.5	17975.8	18414.3	19604.1	22036.4	22892.9	20750.1	19308.8	18943.4	19358.5	19256.2
55°	16935.1	17166.0	17575.3	19022.4	22784.7	26474.0	24720.0	22340.4	22074.4	21896.0	21925.3
57.5°	14616.8	14836.1	15388.6	16984.8	21890.2	29072.9	30388.4	26237.2	25667.2	24845.7	24986.0
60°	11126.3	11263.7	11550.2	13318.9	19238.7	29748.2	36825.7	31163.1	30800.6	27783.7	27883.1
62.5°	7901.9	8056.8	8255.6	9138.5	14084.8	27845.1	41865.6	38041.8	36746.7	30826.9	30730.5
65°	6416.8	6311.6	6551.3	6963.5	8264.4	21580.3	42999.8	47589.5	45806.3	34834.9	33496.0
67.5°	5276.7	5165.6	5402.4	6136.2	6285.2	12526.6	38913.0	53787.1	53430.4	39193.6	36305.3
69°	4671.5	4613.1	4820.6	5656.7	6033.8	8895.8	33899.4	54649.5	54734.2	41763.2	36738.0
70°	4209.7	4233.0	4434.8	5414.1	5919.8	7334.7	28973.5	53459.6	54178.8	43046.6	36270.2
72.5°	3098.8	3148.5	3429.1	4484.4	5811.7	6223.9	17242.0	46695.0	47966.6	43122.6	33180.2
75°	2166.2	2142.8	2391.3	3376.5	5490.1	6168.3	10126.5	36112.4	37553.6	37272.9	27880.2
77.5°	1417.8	1455.8	1654.6	2385.5	4618.9	6121.5	6601.0	25620.4	26555.9	24927.6	16490.7
80°	999.8	996.9	1108.0	1628.3	3426.2	5881.8	5405.3	16148.7	15911.9	9796.2	4890.8
82.5°	573.0	613.9	742.5	1146.0	2291.9	5177.3	4972.6	7723.5	7051.2	2791.8	1651.7
85°	318.6	333.3	441.4	692.8	1338.9	3899.8	4341.2	3513.9	3315.1	1166.4	710.4
87.5°	102.3	111.1	184.2	350.8	608.1	1841.7	2458.6	1622.5	1496.8	421.0	286.5
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°	12190.4	12190.4	12190.4	12190.4	12190.4	12190.4	12190.4	12190.4	12190.4	12190.4	12190.4
2.5°	12208.0	12243.1	12149.5	12058.9	11977.0	11863.0	11760.7	11675.9	11617.5	11608.7	11579.5
5°	12248.9	12251.8	12073.5	11833.8	11599.9	11342.7	11076.6	10886.6	10708.3	10608.9	10559.2
7.5°	12278.1	12251.8	11930.3	11541.5	11091.3	10623.5	10155.8	9781.6	9492.2	9378.2	9422.0
10°	12266.5	12184.6	11713.9	11091.3	10436.4	9737.7	9065.4	8539.2	8056.8	7808.3	7814.2
12.5°	12202.1	12067.7	11392.4	10585.5	9623.7	8688.3	7659.2	6948.8	6390.5	6060.1	5957.8
15°	12146.6	11912.7	11015.3	9898.5	8702.9	7366.9	6112.8	5235.8	4768.0	4507.8	4504.9
17.5°	12088.1	11763.6	10603.1	9170.6	7644.6	5925.7	4610.2	3940.7	3721.4	3747.8	3703.9
20°	12026.7	11588.2	10173.3	8360.8	6355.4	4420.1	3452.5	3180.6	3242.0	3361.9	3379.4
22.5°	11956.6	11401.1	9711.4	7469.2	4999.0	3326.8	2800.6	2759.7	2917.5	3104.6	3130.9
25°	11848.4	11167.3	9129.7	6536.7	3855.9	2680.7	2452.7	2481.9	2636.9	2794.7	2812.3
27.5°	11696.4	10877.9	8542.1	5373.2	2897.1	2300.7	2242.2	2280.2	2356.2	2452.7	2476.1
30°	11491.8	10550.4	7866.8	4367.5	2321.2	2110.7	2087.3	2107.7	2151.6	2192.5	2204.2
32.5°	11287.1	10234.7	7185.6	3344.3	2069.7	1985.0	1961.6	1961.6	1961.6	1967.4	1970.4
35°	11097.1	9936.5	6454.8	2604.7	1938.2	1885.6	1853.4	1818.3	1812.5	1792.0	1792.0
37.5°	10991.9	9664.7	5677.2	2180.8	1841.7	1803.7	1759.9	1701.4	1669.2	1672.2	1666.3
40°	11012.3	9486.3	4969.7	1941.1	1762.8	1721.9	1654.6	1587.4	1566.9	1566.9	1561.1
42.5°	11243.3	9427.9	4291.5	1815.4	1686.8	1640.0	1555.2	1493.8	1482.1	1479.2	1485.1
45°	11775.3	9571.1	3683.4	1733.6	1622.5	1552.3	1467.5	1412.0	1400.3	1400.3	1397.4
47.5°	12813.1	10035.9	3247.9	1680.9	1575.7	1485.1	1397.4	1341.8	1321.4	1315.5	1315.5
50°	14426.8	11044.5	2923.4	1634.2	1517.2	1423.7	1333.1	1268.7	1236.6	1233.7	1230.7
52.5°	16669.0	12617.3	2797.7	1599.1	1452.9	1359.4	1260.0	1198.6	1157.7	1148.9	1143.0
55°	19291.3	14812.7	2970.1	1572.8	1385.7	1286.3	1184.0	1119.7	1081.6	1064.1	1061.2
57.5°	22328.7	17449.6	3625.0	1537.7	1324.3	1207.4	1108.0	1043.6	1002.7	982.3	976.4
60°	25056.2	20159.5	4768.0	1517.2	1271.7	1122.6	1020.3	961.8	923.8	903.3	900.4
62.5°	28052.6	22743.8	6133.2	1572.8	1248.3	1040.7	938.4	885.8	853.6	833.2	833.2
65°	31253.7	25331.0	7036.5	1759.9	1283.4	976.4	850.7	806.8	777.6	763.0	760.1
67.5°	33411.2	26225.5	5797.0	1952.8	1371.1	906.2	765.9	730.8	713.3	698.7	698.7
69°	33177.3	25094.2	4276.9	2002.5	1397.4	871.2	719.1	692.8	669.5	663.6	657.8
70°	32437.7	23805.0	3584.0	1970.4	1376.9	839.0	689.9	657.8	637.3	631.4	628.5
72.5°	28891.7	20644.8	2669.0	1713.1	1172.3	727.9	611.0	581.8	564.2	555.4	555.4
75°	24003.8	16873.7	2084.4	1362.3	917.9	613.9	523.3	499.9	485.3	479.4	476.5
77.5°	13453.3	9422.0	1496.8	1067.0	695.8	497.0	438.5	418.0	403.4	397.6	397.6
80°	3747.8	2692.4	879.9	704.5	473.6	377.1	347.9	333.3	312.8	298.2	307.0
82.5°	1412.0	1166.4	502.8	423.9	301.1	251.4	242.6	230.9	222.2	201.7	201.7
85°	687.0	567.1	321.6	225.1	166.6	131.6	125.7	119.9	114.0	99.4	102.3
87.5°	236.8	251.4	140.3	81.9	49.7	32.2	26.3	14.6	14.6	14.6	14.6
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)