

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: P457538

Luminaire Tested: **GALN-SA8D-827-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457538
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8D-827-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44949 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

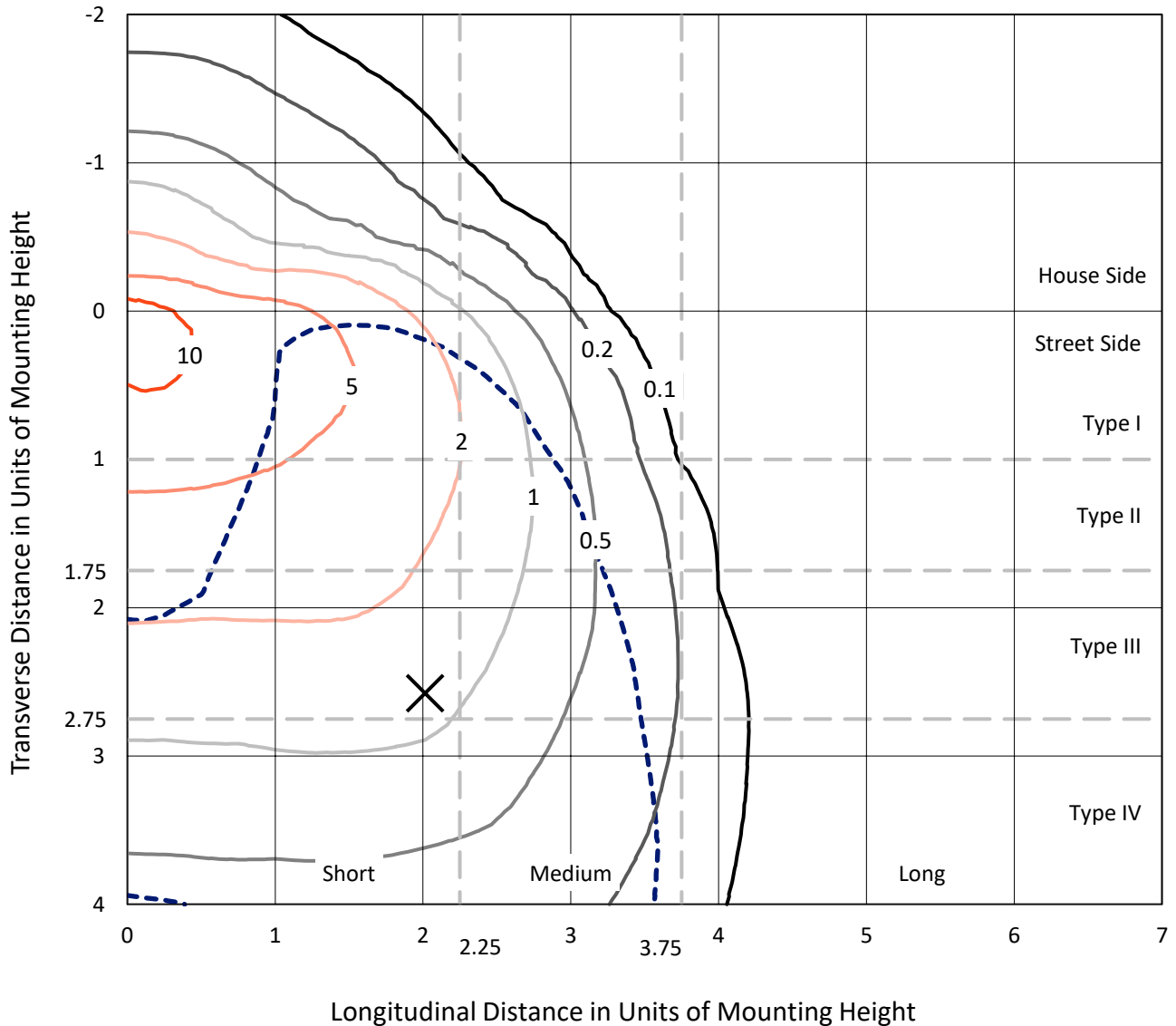
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

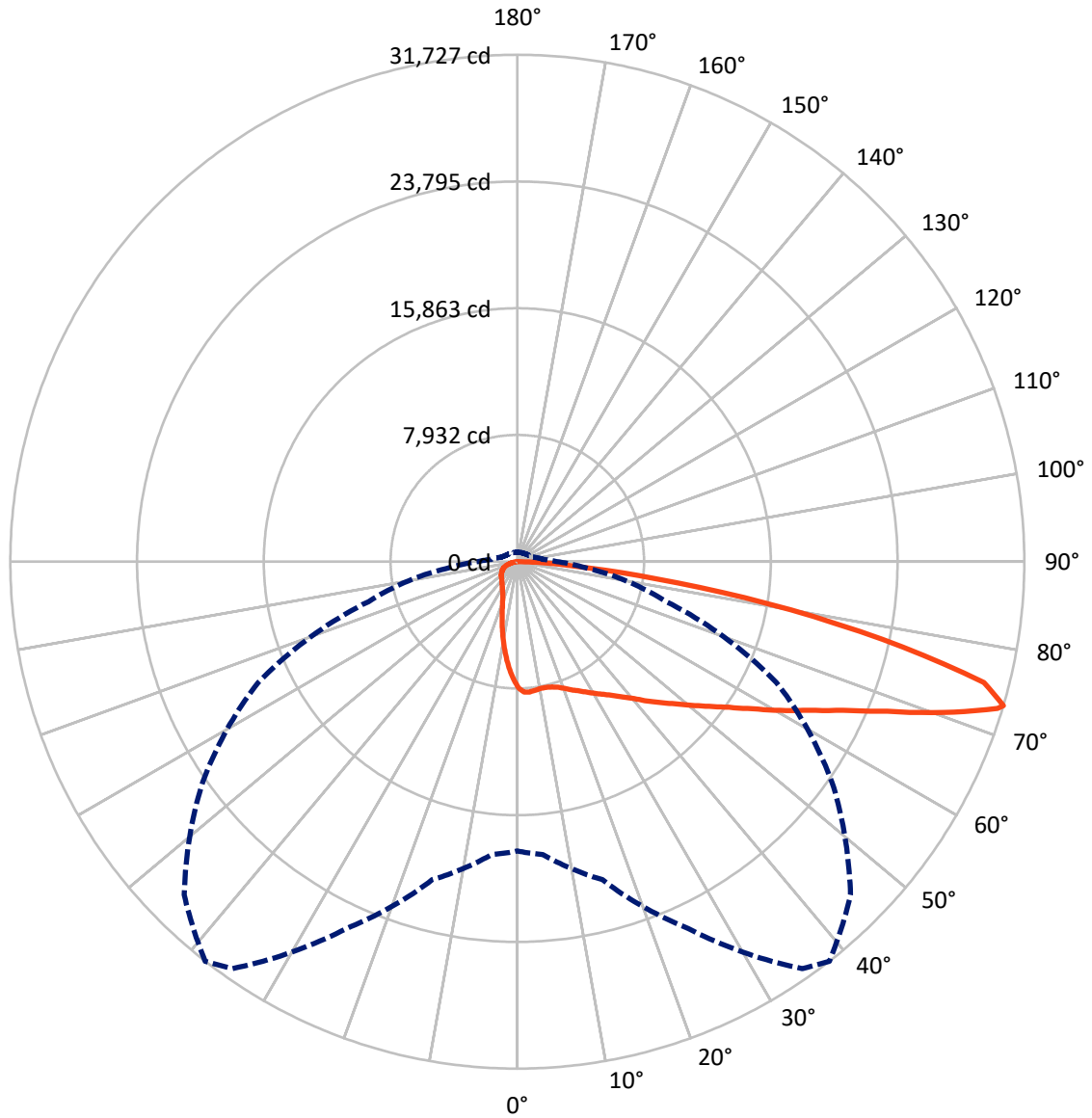
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6042.5	0.0	6042.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	38906.5	0.0	38906.5
	% Fixture	86.6	0.0	86.6
Total	Lumens	44949.0	0.0	44949.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	689.3	1.5
10°-20°	1767.6	3.9
20°-30°	2752.5	6.1
30°-40°	4037.3	9.0
40°-50°	5988.8	13.3
50°-60°	8485.0	18.9
60°-70°	10763.4	23.9
70°-80°	8959.7	19.9
80°-90°	1505.4	3.3
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°	44949.0	100.0
0°-180°	44949.0	100.0

Coefficient of Utilization



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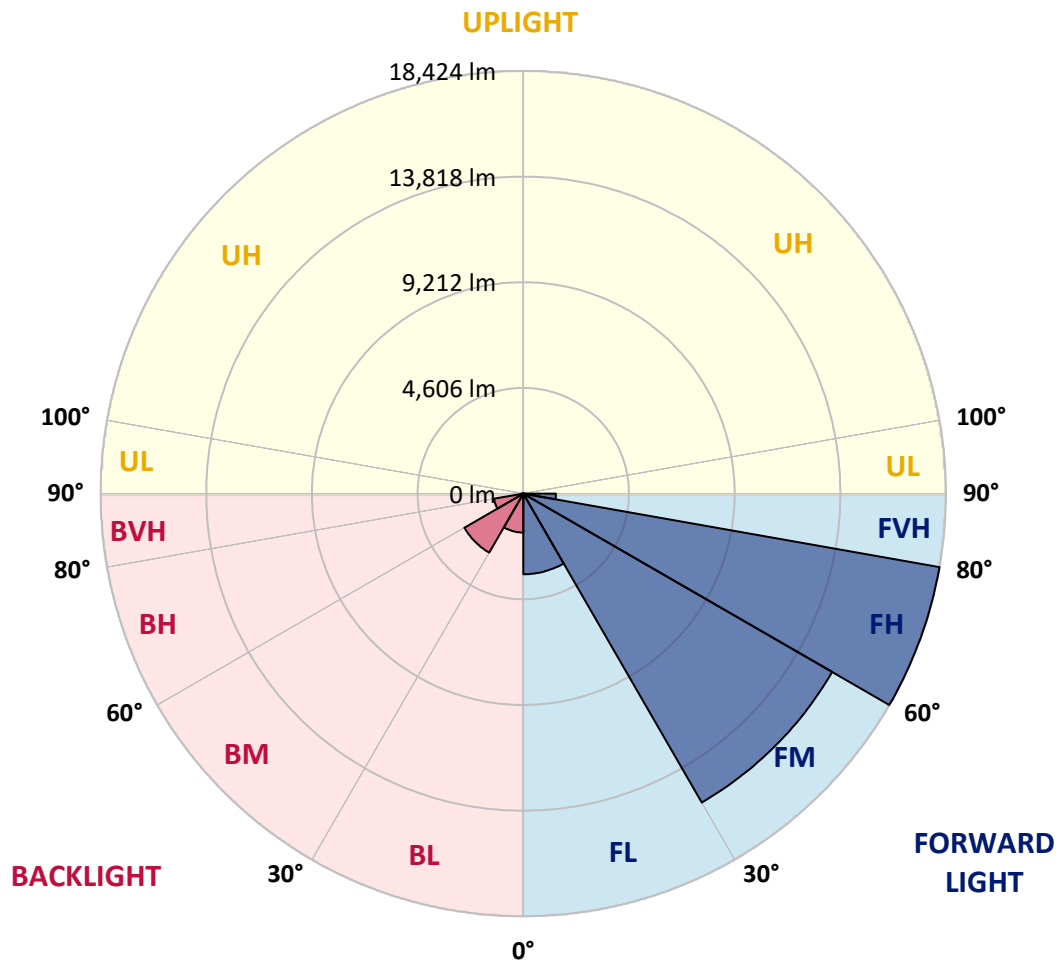
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3513.8	7.8			
FM	(30°-60°)	15544.6	34.6			
FH	(60°-80°)	18424.4	41.0			G5
FVH	(80°-90°)	1423.7	3.2			G5
BL	(0°-30°)	1695.6	3.8	B3/2500		
BM	(30°-60°)	2966.5	6.6	B3/5000		
BH	(60°-80°)	1298.8	2.9	B3/2500		G3/2500
BVH	(80°-90°)	81.6	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	7896.8	7896.8	7896.8	7896.8	7896.8	7896.8	7896.8	7896.8	7896.8	7896.8	7896.8
2.5°	8214.1	8254.7	8234.4	8206.5	8188.7	8170.9	8145.5	8071.9	8013.5	7950.1	7851.1
5°	8275.0	8300.4	8282.6	8247.1	8206.5	8188.7	8140.5	8044.0	7950.1	7843.5	7696.2
7.5°	8239.5	8249.6	8229.3	8186.1	8150.6	8117.6	8061.8	7955.2	7840.9	7711.5	7518.6
10°	8112.5	8150.6	8150.6	8115.1	8079.5	8061.8	8005.9	7904.4	7800.3	7653.1	7424.6
12.5°	8008.5	8049.1	8082.1	8071.9	8069.4	8069.4	8026.2	7950.1	7828.2	7688.6	7417.0
15°	7937.4	7985.6	8056.7	8097.3	8122.7	8130.3	8112.5	8046.5	7922.2	7759.7	7447.5
17.5°	7922.2	7980.5	8110.0	8198.8	8264.8	8262.3	8257.2	8165.8	8028.8	7861.2	7485.6
20°	7990.7	8066.8	8247.1	8386.7	8483.1	8465.4	8437.4	8318.1	8158.2	7970.4	7521.1
22.5°	8196.3	8275.0	8473.0	8625.3	8719.2	8719.2	8635.4	8478.1	8308.0	8097.3	7569.3
25°	8490.7	8577.1	8787.7	8942.6	8985.7	8952.7	8869.0	8678.6	8483.1	8280.1	7670.9
27.5°	8851.2	8955.3	9150.7	9280.2	9267.5	9242.1	9155.8	8912.1	8716.7	8531.4	7843.5
30°	9300.5	9376.6	9579.7	9610.2	9564.5	9559.4	9437.6	9193.9	9011.1	8869.0	8089.7
32.5°	9724.4	9792.9	9955.4	9968.1	9886.8	9897.0	9782.8	9559.4	9455.3	9404.6	8503.4
35°	10173.7	10209.2	10348.8	10333.6	10280.3	10272.7	10227.0	10013.8	10046.8	10138.1	9089.8
37.5°	10549.3	10620.4	10699.1	10711.8	10709.3	10734.6	10765.1	10663.6	10853.9	11140.8	9858.9
40°	10894.6	10955.5	11072.2	11112.9	11211.9	11262.6	11366.7	11369.2	11808.4	12280.5	10805.7
42.5°	11128.1	11232.2	11450.5	11524.1	11765.2	11917.5	12072.3	12237.3	12874.5	13481.1	11922.6
45°	11331.2	11468.2	11831.2	12059.7	12387.1	12572.4	12899.8	13245.1	14161.4	14955.9	13057.2
47.5°	11638.3	11760.1	12176.4	12580.0	13075.0	13288.2	13778.1	14293.4	15491.5	16362.1	14143.6
50°	12064.7	12138.3	12562.2	13219.7	13851.7	14125.9	14773.1	15516.9	16913.0	17750.6	15098.0
52.5°	12610.5	12640.9	12978.5	13854.3	14686.8	15027.0	15884.9	16753.0	18156.8	18956.3	15854.5
55°	13255.2	13204.4	13468.4	14526.9	15641.3	16085.5	17006.9	18004.4	19555.4	19931.1	16405.3
57.5°	13892.3	13813.6	14024.3	15344.3	16819.0	17354.6	18428.4	19293.9	20804.2	20842.3	16791.1
60°	14567.5	14509.2	14760.5	16303.8	18263.4	18897.9	19890.4	20631.6	22012.5	21476.9	16852.0
62.5°	15260.5	15166.6	15524.5	17382.6	19890.4	20466.6	21428.7	22053.1	23197.9	21713.0	16265.7
65°	15933.2	15890.0	16443.4	18664.4	21743.4	22398.3	23332.4	23756.3	24147.2	21357.6	14811.2
67.5°	16649.0	16735.3	17618.6	20375.3	24159.9	24982.3	25990.1	25591.5	24418.8	19674.7	12473.4
70°	17740.5	17796.3	19161.9	22616.6	27274.5	28267.0	28754.3	26243.9	23109.1	16478.9	9376.6
72.5°	18210.1	18456.3	20540.3	24969.7	30812.9	31419.6	29683.4	24789.4	19250.8	11194.1	4926.9
73°	18106.0	18400.4	20603.7	25327.6	31089.6	31726.7	29485.4	24040.6	17895.3	9640.6	4223.8
75°	16808.9	17171.9	19778.7	25028.0	30551.5	30170.7	26302.3	20489.5	12092.7	4383.7	1924.1
77.5°	13262.8	13366.9	15671.7	20210.3	24058.4	23352.7	19684.8	12805.9	4939.6	1629.6	1091.5
80°	6653.0	7036.3	8833.4	11577.4	16088.0	15857.0	12425.2	6056.5	2058.6	957.0	723.4
82.5°	3200.8	3472.4	4302.5	5645.3	8889.3	8678.6	6152.9	3310.0	1307.2	558.4	426.4
85°	2061.1	2264.2	2738.9	2693.2	3655.2	3490.2	2764.3	2505.3	774.2	291.9	297.0
87.5°	1360.6	1490.0	1787.0	1429.1	1330.1	1203.2	1220.9	1411.3	152.3	111.7	40.6
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°	7896.8	7896.8	7896.8	7896.8	7896.8	7896.8	7896.8	7896.8	7896.8	7896.8	7896.8
2.5°	7810.5	7777.5	7668.3	7561.7	7460.2	7363.7	7300.3	7216.5	7160.7	7175.9	7198.7
5°	7615.0	7541.4	7348.5	7160.7	6983.0	6772.3	6602.2	6465.2	6361.1	6323.0	6315.4
7.5°	7409.4	7285.0	7008.4	6686.0	6383.9	6122.5	5820.4	5670.7	5495.5	5434.6	5414.3
10°	7285.0	7117.5	6729.1	6279.9	5825.5	5391.4	5064.0	4797.5	4556.3	4510.6	4487.8
12.5°	7249.5	7028.7	6505.8	5927.0	5322.9	4789.8	4305.0	3954.7	3721.2	3667.9	3589.2
15°	7229.2	6955.1	6297.6	5571.7	4805.1	4155.3	3645.1	3236.4	3023.2	2881.0	2883.6
17.5°	7211.4	6871.3	6064.1	5183.3	4358.3	3609.5	3046.0	2677.9	2482.5	2406.3	2398.7
20°	7186.0	6772.3	5795.0	4774.6	3848.1	3112.0	2601.8	2327.7	2195.7	2132.2	2129.7
22.5°	7175.9	6675.8	5531.0	4358.3	3396.3	2728.7	2307.4	2114.4	2030.7	1987.5	1987.5
25°	7201.3	6607.3	5254.4	3962.3	2995.2	2401.3	2104.3	1972.3	1924.1	1901.2	1893.6
27.5°	7280.0	6576.8	4980.2	3566.4	2627.2	2177.9	1967.2	1875.8	1840.3	1822.5	1825.1
30°	7429.7	6574.3	4711.2	3175.5	2353.0	2007.8	1858.1	1794.6	1766.7	1756.5	1754.0
32.5°	7670.9	6630.1	4447.2	2853.1	2122.1	1865.7	1756.5	1710.8	1698.1	1690.5	1688.0
35°	8079.5	6787.5	4185.7	2558.6	1944.4	1738.8	1660.1	1637.2	1619.5	1627.1	1629.6
37.5°	8630.4	7059.1	3937.0	2327.7	1809.8	1644.8	1578.8	1558.5	1548.4	1556.0	1563.6
40°	9369.0	7450.0	3728.8	2142.4	1713.4	1566.2	1507.8	1490.0	1479.9	1492.5	1495.1
42.5°	10183.8	7901.9	3556.2	1997.7	1634.7	1500.2	1444.3	1424.0	1416.4	1424.0	1426.5
45°	11021.5	8427.3	3467.4	1893.6	1568.7	1451.9	1393.5	1370.7	1352.9	1347.9	1355.5
47.5°	11846.4	8884.2	3464.8	1830.1	1515.4	1408.8	1345.3	1319.9	1297.1	1284.4	1281.9
50°	12519.1	9247.2	3525.8	1802.2	1469.7	1360.6	1297.1	1271.7	1241.2	1215.9	1220.9
52.5°	13026.8	9483.2	3553.7	1789.5	1444.3	1309.8	1246.3	1223.5	1187.9	1154.9	1154.9
55°	13354.2	9539.1	3485.1	1776.8	1424.0	1256.5	1187.9	1167.6	1132.1	1099.1	1099.1
57.5°	13465.9	9366.5	3238.9	1746.4	1403.7	1210.8	1129.6	1111.8	1083.9	1050.9	1045.8
60°	13207.0	8782.7	2807.4	1655.0	1363.1	1162.6	1066.1	1058.5	1048.3	1020.4	1017.9
62.5°	12209.4	7543.9	2337.8	1535.7	1294.6	1111.8	1007.7	1020.4	1028.0	1012.8	1010.3
65°	10549.3	6125.0	1997.7	1370.7	1203.2	1040.7	944.3	977.3	997.6	997.6	992.5
67.5°	8556.7	4703.5	1682.9	1228.6	1088.9	944.3	873.2	898.6	913.8	908.7	921.4
70°	6081.9	3185.6	1370.7	1066.1	944.3	835.1	781.8	781.8	771.7	766.6	766.6
72.5°	2949.6	1820.0	1111.8	891.0	804.7	713.3	670.1	652.4	632.0	629.5	616.8
73°	2464.7	1632.2	1061.0	858.0	771.7	695.5	647.3	619.4	606.7	596.5	594.0
75°	1500.2	1238.7	885.9	723.4	657.4	599.0	555.9	530.5	517.8	510.2	507.7
77.5°	987.4	924.0	687.9	553.4	502.6	467.1	449.3	423.9	416.3	406.1	406.1
80°	736.1	705.7	492.4	390.9	360.4	330.0	324.9	319.8	299.5	286.8	281.8
82.5°	474.7	502.6	335.1	261.4	228.5	203.1	205.6	213.2	192.9	175.1	170.1
85°	337.6	363.0	203.1	119.3	96.5	83.8	93.9	83.8	86.3	68.5	55.8
87.5°	55.8	96.5	35.5	15.2	7.6	5.1	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)