

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: P457683

Luminaire Tested: **GALN-SA9A-740-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457683
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-SA9A-740-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 615mA 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: 40580 lumens
Efficiency: N/A
Efficacy: 148.1 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

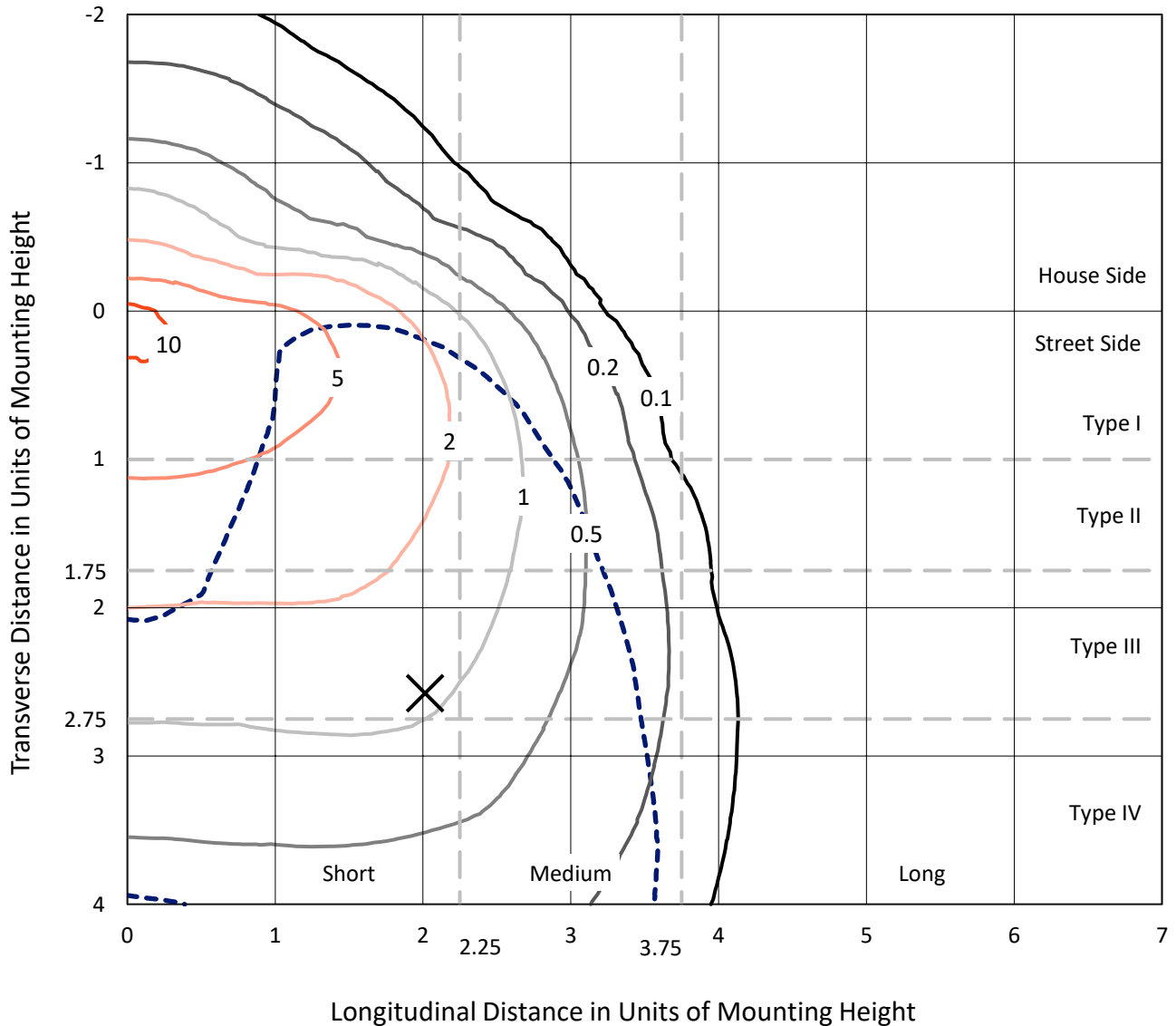
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

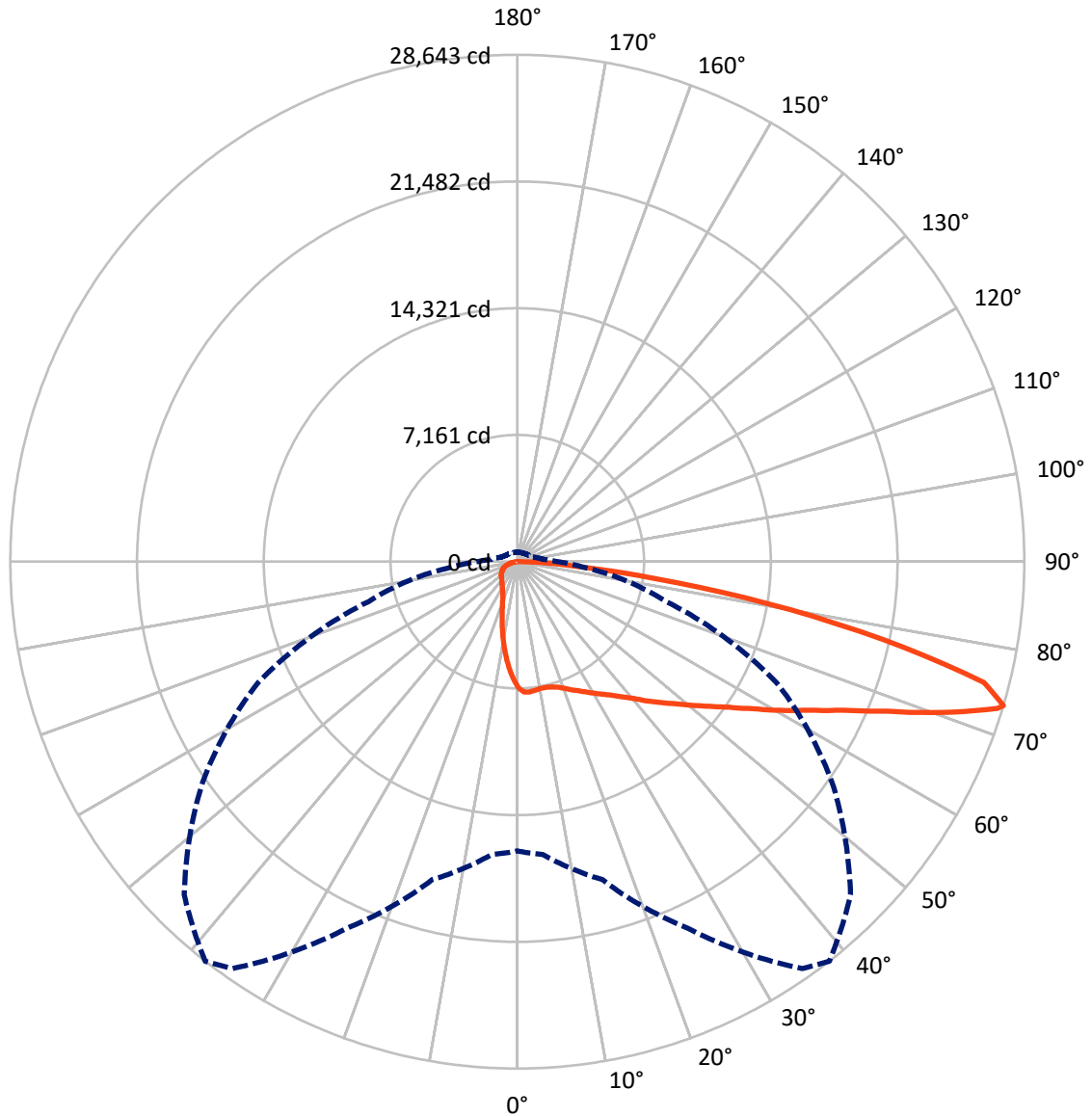
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 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	5455.2	0.0	5455.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	35124.8	0.0	35124.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	40580.0	0.0	40580.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	622.3	1.5
10°-20°	1595.8	3.9
20°-30°	2485.0	6.1
30°-40°	3644.8	9.0
40°-50°	5406.7	13.3
50°-60°	7660.2	18.9
60°-70°	9717.2	23.9
70°-80°	8088.9	19.9
80°-90°	1359.1	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°	40580.0	100.0
0°-180°	40580.0	100.0

Coefficient of Utilization



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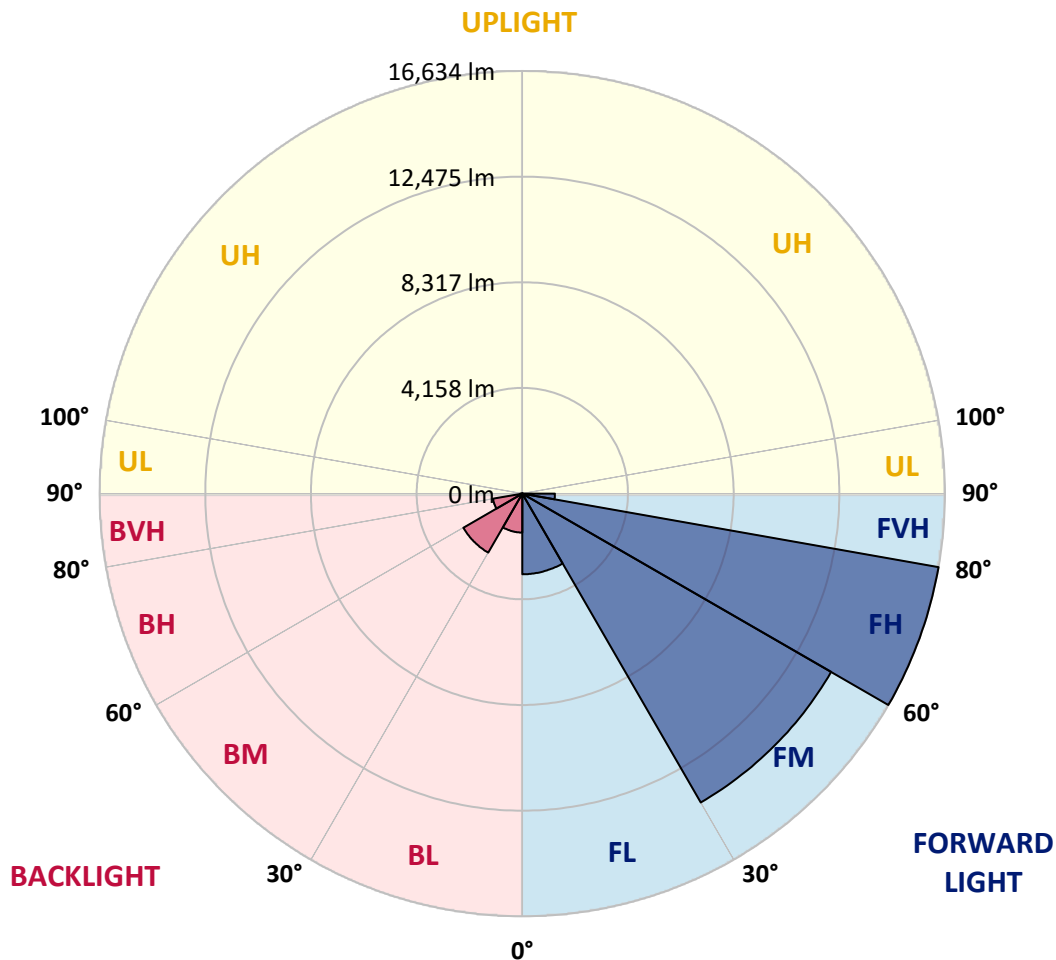
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3172.3	7.8			
FM	(30°-60°)	14033.7	34.6			
FH	(60°-80°)	16633.6	41.0			G5
FVH	(80°-90°)	1285.4	3.2			G5
BL	(0°-30°)	1530.8	3.8	B3/2500		
BM	(30°-60°)	2678.2	6.6	B3/5000		
BH	(60°-80°)	1172.5	2.9	B3/2500		G3/2500
BVH	(80°-90°)	73.7	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°	7129.2	7129.2	7129.2	7129.2	7129.2	7129.2	7129.2	7129.2	7129.2	7129.2	7129.2
2.5°	7415.7	7452.3	7434.0	7408.8	7392.8	7376.7	7353.8	7287.3	7234.6	7177.3	7088.0
5°	7470.7	7493.6	7477.5	7445.5	7408.8	7392.8	7349.2	7262.1	7177.3	7081.1	6948.2
7.5°	7438.6	7447.8	7429.4	7390.5	7358.4	7328.6	7278.2	7181.9	7078.8	6961.9	6787.8
10°	7324.0	7358.4	7358.4	7326.3	7294.2	7278.2	7227.8	7136.1	7042.1	6909.2	6703.0
12.5°	7230.0	7266.7	7296.5	7287.3	7285.0	7285.0	7246.1	7177.3	7067.3	6941.3	6696.1
15°	7165.9	7209.4	7273.6	7310.3	7333.2	7340.0	7324.0	7264.4	7152.1	7005.5	6723.6
17.5°	7152.1	7204.8	7321.7	7401.9	7461.5	7459.2	7454.6	7372.1	7248.4	7097.1	6758.0
20°	7214.0	7282.8	7445.5	7571.5	7658.6	7642.5	7617.3	7509.6	7365.3	7195.7	6790.1
22.5°	7399.6	7470.7	7649.4	7786.9	7871.7	7871.7	7796.1	7654.0	7500.5	7310.3	6833.6
25°	7665.5	7743.4	7933.6	8073.4	8112.3	8082.5	8006.9	7835.0	7658.6	7475.3	6925.3
27.5°	7990.9	8084.8	8261.3	8378.1	8366.7	8343.8	8265.9	8045.9	7869.4	7702.1	7081.1
30°	8396.5	8465.2	8648.6	8676.1	8634.8	8630.2	8520.2	8300.2	8135.2	8006.9	7303.4
32.5°	8779.2	8841.1	8987.7	8999.2	8925.8	8935.0	8831.9	8630.2	8536.3	8490.4	7676.9
35°	9184.8	9216.9	9342.9	9329.2	9281.0	9274.2	9232.9	9040.4	9070.2	9152.7	8206.3
37.5°	9524.0	9588.1	9659.2	9670.6	9668.3	9691.2	9718.7	9627.1	9799.0	10057.9	8900.6
40°	9835.6	9890.6	9996.0	10032.7	10122.1	10167.9	10261.9	10264.1	10660.6	11086.8	9755.4
42.5°	10046.4	10140.4	10337.5	10403.9	10621.6	10759.1	10898.9	11047.9	11623.1	12170.8	10763.7
45°	10229.8	10353.5	10681.2	10887.5	11183.1	11350.4	11646.0	11957.7	12784.9	13502.2	11788.1
47.5°	10507.1	10617.1	10992.9	11357.3	11804.1	11996.6	12438.9	12904.1	13985.7	14771.8	12768.9
50°	10892.1	10958.5	11341.2	11934.7	12505.4	12752.8	13337.2	14008.7	15269.0	16025.3	13630.5
52.5°	11384.7	11412.2	11717.0	12507.6	13259.3	13566.4	14340.9	15124.7	16391.9	17113.8	14313.4
55°	11966.8	11921.0	12159.3	13114.9	14120.9	14522.0	15353.8	16254.4	17654.6	17993.8	14810.7
57.5°	12542.0	12471.0	12661.2	13852.8	15184.2	15667.8	16637.1	17418.6	18782.1	18816.5	15159.0
60°	13151.6	13098.9	13325.7	14719.1	16488.2	17061.1	17957.1	18626.3	19872.9	19389.4	15214.0
62.5°	13777.2	13692.4	14015.5	15693.0	17957.1	18477.3	19345.8	19909.6	20943.1	19602.5	14684.7
65°	14384.5	14345.5	14845.1	16850.3	19630.0	20221.2	21064.5	21447.2	21800.1	19281.7	13371.6
67.5°	15030.7	15108.6	15906.1	18394.8	21811.6	22554.1	23463.9	23104.1	22045.3	17762.3	11261.0
70°	16016.1	16066.5	17299.4	20418.3	24623.4	25519.4	25959.4	23693.0	20862.9	14877.2	8465.2
72.5°	16440.1	16662.3	18543.8	22542.6	27817.9	28365.6	26798.2	22379.9	17379.6	10106.0	4448.0
73°	16346.1	16611.9	18601.0	22865.7	28067.7	28642.9	26619.4	21703.9	16155.9	8703.6	3813.2
75°	15175.1	15502.8	17856.3	22595.3	27581.9	27238.2	23745.7	18497.9	10917.3	3957.6	1737.0
77.5°	11973.7	12067.7	14148.4	18245.8	21719.9	21082.9	17771.5	11561.2	4459.5	1471.2	985.4
80°	6006.3	6352.4	7974.8	10452.1	14524.3	14315.7	11217.5	5467.8	1858.5	863.9	653.1
82.5°	2889.7	3134.9	3884.3	5096.6	8025.2	7835.0	5554.9	2988.3	1180.2	504.2	385.0
85°	1860.8	2044.1	2472.7	2431.4	3299.9	3151.0	2495.6	2261.8	698.9	263.5	268.1
87.5°	1228.3	1345.2	1613.3	1290.2	1200.8	1086.2	1102.3	1274.1	137.5	100.8	36.7
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°	7129.2	7129.2	7129.2	7129.2	7129.2	7129.2	7129.2	7129.2	7129.2	7129.2	7129.2
2.5°	7051.3	7021.5	6923.0	6826.7	6735.1	6648.0	6590.7	6515.1	6464.6	6478.4	6499.0
5°	6874.8	6808.4	6634.2	6464.6	6304.2	6114.0	5960.5	5836.7	5742.8	5708.4	5701.5
7.5°	6689.2	6576.9	6327.2	6036.1	5763.4	5527.4	5254.7	5119.5	4961.3	4906.4	4888.0
10°	6576.9	6425.7	6075.1	5669.5	5259.3	4867.4	4571.8	4331.2	4113.5	4072.2	4051.6
12.5°	6544.9	6345.5	5873.4	5350.9	4805.5	4324.3	3886.6	3570.3	3359.5	3311.4	3240.3
15°	6526.5	6279.0	5685.5	5030.1	4338.0	3751.4	3290.8	2921.8	2729.3	2601.0	2603.3
17.5°	6510.5	6203.4	5474.7	4679.5	3934.7	3258.7	2749.9	2417.7	2241.2	2172.5	2165.6
20°	6487.6	6114.0	5231.8	4310.5	3474.1	2809.5	2348.9	2101.4	1982.2	1925.0	1922.7
22.5°	6478.4	6027.0	4993.4	3934.7	3066.2	2463.5	2083.1	1908.9	1833.3	1794.3	1794.3
25°	6501.3	5965.1	4743.6	3577.2	2704.1	2167.9	1899.7	1780.6	1737.0	1716.4	1709.5
27.5°	6572.4	5937.6	4496.2	3219.7	2371.8	1966.2	1776.0	1693.5	1661.4	1645.4	1647.7
30°	6707.6	5935.3	4253.2	2866.8	2124.3	1812.7	1677.5	1620.2	1595.0	1585.8	1583.5
32.5°	6925.3	5985.7	4014.9	2575.8	1915.8	1684.3	1585.8	1544.5	1533.1	1526.2	1523.9
35°	7294.2	6127.8	3778.9	2309.9	1755.4	1569.8	1498.7	1478.1	1462.1	1468.9	1471.2
37.5°	7791.5	6373.0	3554.3	2101.4	1633.9	1485.0	1425.4	1407.1	1397.9	1404.8	1411.6
40°	8458.4	6725.9	3366.4	1934.1	1546.8	1413.9	1361.2	1345.2	1336.0	1347.5	1349.8
42.5°	9194.0	7133.8	3210.6	1803.5	1475.8	1354.3	1303.9	1285.6	1278.7	1285.6	1287.9
45°	9950.2	7608.2	3130.3	1709.5	1416.2	1310.8	1258.1	1237.5	1221.4	1216.8	1223.7
47.5°	10695.0	8020.7	3128.1	1652.3	1368.1	1271.8	1214.6	1191.6	1171.0	1159.6	1157.3
50°	11302.3	8348.4	3183.1	1627.0	1326.8	1228.3	1171.0	1148.1	1120.6	1097.7	1102.3
52.5°	11760.6	8561.5	3208.3	1615.6	1303.9	1182.5	1125.2	1104.6	1072.5	1042.7	1042.7
55°	12056.2	8611.9	3146.4	1604.1	1285.6	1134.4	1072.5	1054.1	1022.1	992.3	992.3
57.5°	12157.0	8456.1	2924.1	1576.6	1267.3	1093.1	1019.8	1003.7	978.5	948.7	944.1
60°	11923.3	7929.0	2534.5	1494.1	1230.6	1049.6	962.5	955.6	946.4	921.2	918.9
62.5°	11022.7	6810.7	2110.6	1386.4	1168.7	1003.7	909.8	921.2	928.1	914.4	912.1
65°	9524.0	5529.7	1803.5	1237.5	1086.2	939.6	852.5	882.3	900.6	900.6	896.0
67.5°	7725.0	4246.4	1519.3	1109.1	983.1	852.5	788.3	811.2	825.0	820.4	831.9
70°	5490.7	2876.0	1237.5	962.5	852.5	753.9	705.8	705.8	696.7	692.1	692.1
72.5°	2662.9	1643.1	1003.7	804.4	726.4	643.9	605.0	588.9	570.6	568.3	556.9
73°	2225.2	1473.5	957.9	774.6	696.7	627.9	584.4	559.2	547.7	538.5	536.2
75°	1354.3	1118.3	799.8	653.1	593.5	540.8	501.9	478.9	467.5	460.6	458.3
77.5°	891.4	834.1	621.0	499.6	453.7	421.7	405.6	382.7	375.8	366.7	366.7
80°	664.6	637.1	444.6	352.9	325.4	297.9	293.3	288.7	270.4	259.0	254.4
82.5°	428.5	453.7	302.5	236.0	206.2	183.3	185.6	192.5	174.2	158.1	153.5
85°	304.8	327.7	183.3	107.7	87.1	75.6	84.8	75.6	77.9	61.9	50.4
87.5°	50.4	87.1	32.1	13.7	6.9	4.6	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)