

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: P455595

Luminaire Tested: **GALN-SA6D-740-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455595
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-SA6D-740-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 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: 44903 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

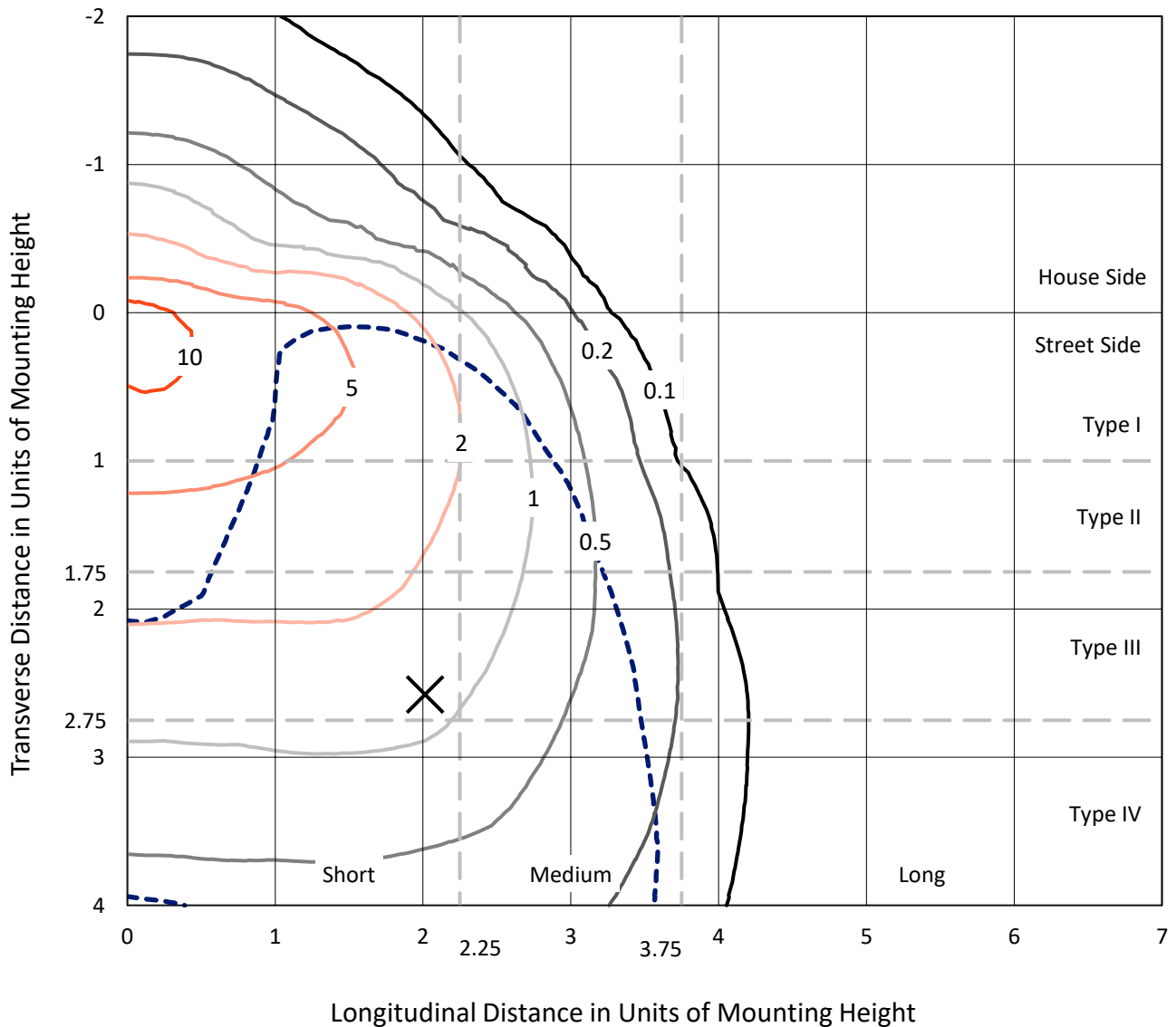
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

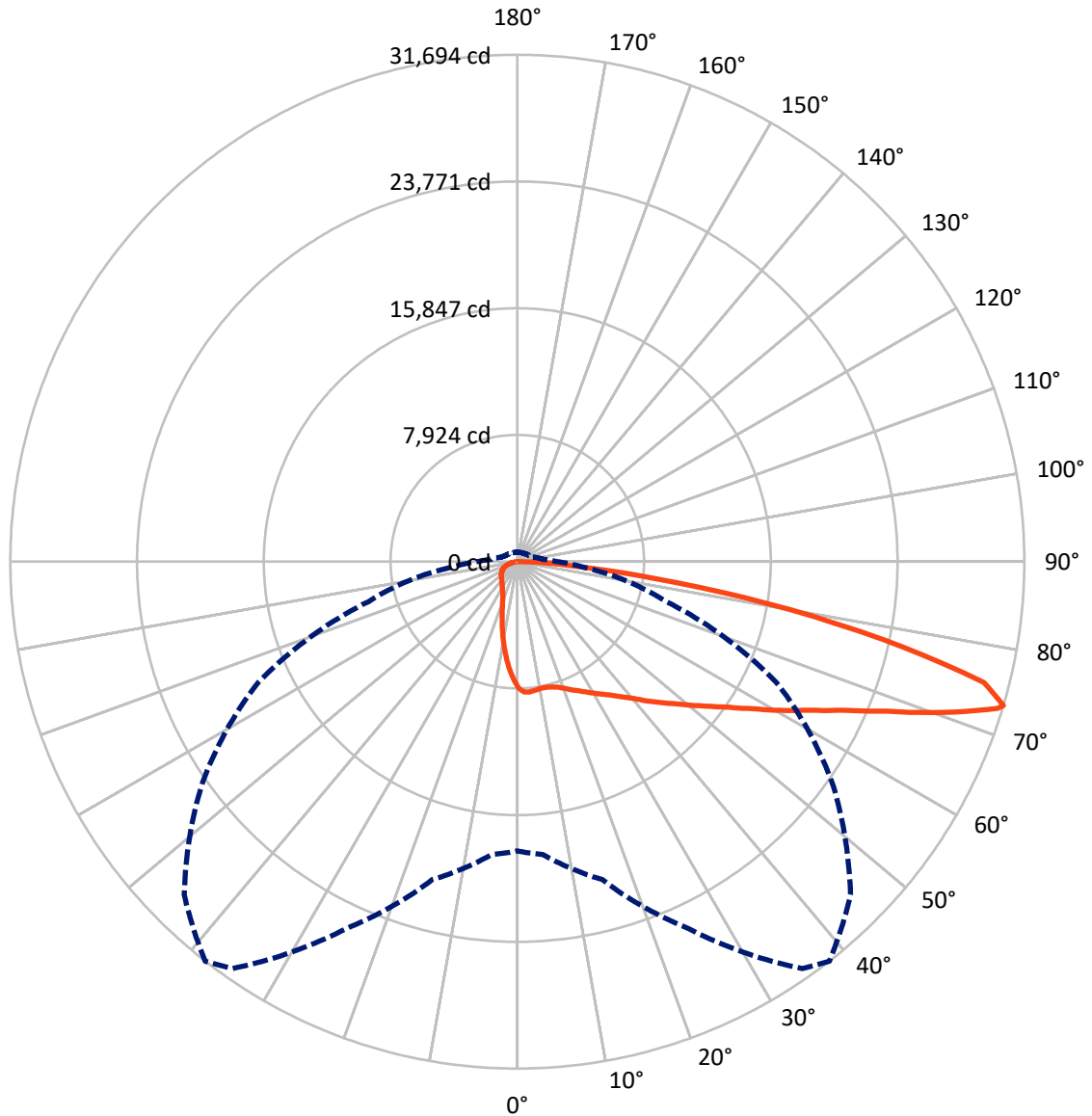
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	6036.3	0.0	6036.3
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	38866.7	0.0	38866.7
	% Fixture	86.6	0.0	86.6
Total	Lumens	44903.0	0.0	44903.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	688.6	1.5
10°-20°	1765.8	3.9
20°-30°	2749.7	6.1
30°-40°	4033.1	9.0
40°-50°	5982.7	13.3
50°-60°	8476.3	18.9
60°-70°	10752.4	23.9
70°-80°	8950.6	19.9
80°-90°	1503.8	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°	44903.0	100.0
0°-180°	44903.0	100.0

Coefficient of Utilization



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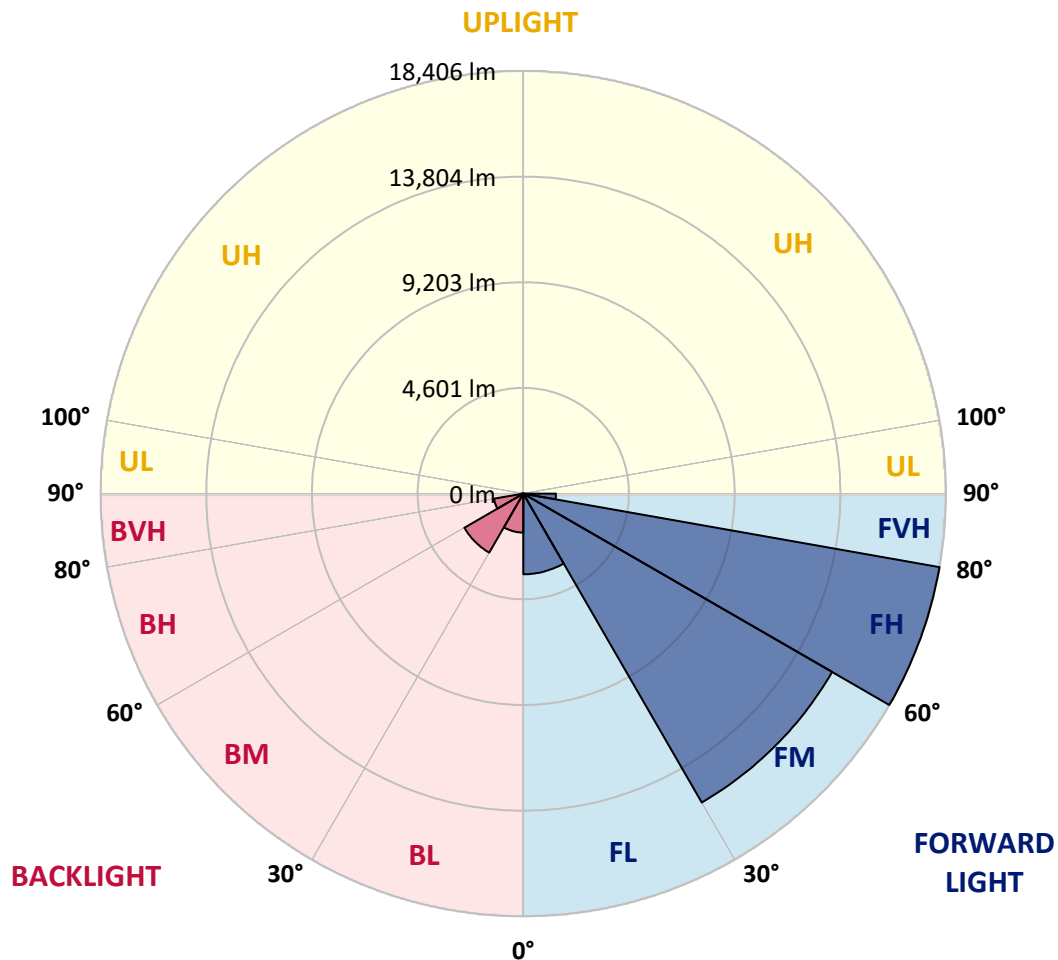
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3510.2	7.8			
FM	(30°-60°)	15528.7	34.6			
FH	(60°-80°)	18405.6	41.0			G5
FVH	(80°-90°)	1422.3	3.2			G5
BL	(0°-30°)	1693.8	3.8	B3/2500		
BM	(30°-60°)	2963.5	6.6	B3/5000		
BH	(60°-80°)	1297.4	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°	7888.7	7888.7	7888.7	7888.7	7888.7	7888.7	7888.7	7888.7	7888.7	7888.7	7888.7
2.5°	8205.7	8246.2	8225.9	8198.1	8180.3	8162.6	8137.2	8063.7	8005.3	7941.9	7843.1
5°	8266.5	8291.9	8274.1	8238.6	8198.1	8180.3	8132.1	8035.8	7941.9	7835.4	7688.4
7.5°	8231.0	8241.2	8220.9	8177.8	8142.3	8109.3	8053.5	7947.0	7832.9	7703.6	7510.9
10°	8104.2	8142.3	8142.3	8106.8	8071.3	8053.5	7997.7	7896.3	7792.3	7645.3	7417.0
12.5°	8000.3	8040.8	8073.8	8063.7	8061.1	8061.1	8018.0	7941.9	7820.2	7680.8	7409.4
15°	7929.3	7977.4	8048.4	8089.0	8114.4	8122.0	8104.2	8038.3	7914.1	7751.8	7439.9
17.5°	7914.1	7972.4	8101.7	8190.4	8256.4	8253.8	8248.8	8157.5	8020.6	7853.2	7477.9
20°	7982.5	8058.6	8238.6	8378.1	8474.5	8456.7	8428.8	8309.6	8149.9	7962.2	7513.4
22.5°	8187.9	8266.5	8464.3	8616.5	8710.3	8710.3	8626.6	8469.4	8299.5	8089.0	7561.6
25°	8482.1	8568.3	8778.7	8933.4	8976.5	8943.6	8859.9	8669.7	8474.5	8271.6	7663.0
27.5°	8842.1	8946.1	9141.4	9270.7	9258.0	9232.6	9146.4	8903.0	8707.7	8522.6	7835.4
30°	9291.0	9367.0	9569.9	9600.3	9554.7	9549.6	9427.9	9184.5	9001.9	8859.9	8081.4
32.5°	9714.4	9782.9	9945.2	9957.9	9876.7	9886.9	9772.8	9549.6	9445.6	9394.9	8494.7
35°	10163.3	10198.8	10338.2	10323.0	10269.8	10262.2	10216.5	10003.5	10036.5	10127.8	9080.5
37.5°	10538.5	10609.5	10688.2	10700.8	10698.3	10723.7	10754.1	10652.7	10842.8	11129.4	9848.8
40°	10883.4	10944.3	11060.9	11101.5	11200.4	11251.1	11355.1	11357.6	11796.3	12267.9	10794.7
42.5°	11116.7	11220.7	11438.7	11512.3	11753.2	11905.3	12060.0	12224.8	12861.3	13467.3	11910.4
45°	11319.6	11456.5	11819.1	12047.3	12374.4	12559.5	12886.6	13231.5	14146.9	14940.6	13043.9
47.5°	11626.4	11748.1	12164.0	12567.1	13061.6	13274.6	13764.0	14278.8	15475.6	16345.4	14129.2
50°	12052.4	12125.9	12549.4	13206.1	13837.5	14111.4	14758.0	15501.0	16895.7	17732.4	15082.6
52.5°	12597.6	12628.0	12965.3	13840.1	14671.8	15011.6	15868.7	16735.9	18138.2	18936.9	15838.2
55°	13241.6	13190.9	13454.7	14512.1	15625.2	16069.0	16989.5	17986.0	19535.4	19910.7	16388.5
57.5°	13878.1	13799.5	14010.0	15328.6	16801.8	17336.9	18409.5	19274.2	20782.9	20821.0	16773.9
60°	14552.6	14494.3	14745.3	16287.1	18244.7	18878.6	19870.1	20610.5	21990.0	21454.9	16834.8
62.5°	15244.9	15151.1	15508.6	17364.8	19870.1	20445.7	21406.7	22030.5	23174.2	21690.7	16249.0
65°	15916.9	15873.8	16426.5	18645.3	21721.2	22375.4	23308.5	23732.0	24122.5	21335.7	14796.1
67.5°	16631.9	16718.2	17600.6	20354.4	24135.2	24956.8	25963.5	25565.4	24393.8	19654.5	12460.6
70°	17722.3	17778.1	19142.3	22593.5	27246.6	28238.0	28724.9	26217.0	23085.4	16462.0	9367.0
72.5°	18191.4	18437.4	20519.2	24944.1	30781.4	31387.4	29653.0	24764.1	19231.1	11182.6	4921.9
73°	18087.5	18381.6	20582.6	25301.6	31057.8	31694.3	29455.2	24016.0	17877.0	9630.8	4219.5
75°	16791.7	17154.3	19758.5	25002.4	30520.2	30139.8	26275.4	20468.5	12080.3	4379.2	1922.1
77.5°	13249.3	13353.2	15655.7	20189.6	24033.8	23328.8	19664.7	12792.8	4934.6	1627.9	1090.4
80°	6646.2	7029.1	8824.4	11565.5	16071.5	15840.8	12412.5	6050.3	2056.5	956.0	722.7
82.5°	3197.6	3468.9	4298.1	5639.5	8880.2	8669.7	6146.6	3306.6	1305.9	557.9	426.0
85°	2059.0	2261.9	2736.1	2690.4	3651.5	3486.6	2761.4	2502.8	773.4	291.6	296.7
87.5°	1359.2	1488.5	1785.2	1427.6	1328.7	1201.9	1219.7	1409.9	152.1	111.6	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°	7888.7	7888.7	7888.7	7888.7	7888.7	7888.7	7888.7	7888.7	7888.7	7888.7	7888.7
2.5°	7802.5	7769.5	7660.5	7554.0	7452.5	7356.2	7292.8	7209.1	7153.3	7168.5	7191.4
5°	7607.2	7533.7	7341.0	7153.3	6975.8	6765.4	6595.5	6458.5	6354.6	6316.5	6308.9
7.5°	7401.8	7277.6	7001.2	6679.1	6377.4	6116.2	5814.5	5664.8	5489.9	5429.0	5408.7
10°	7277.6	7110.2	6722.3	6273.4	5819.5	5385.9	5058.8	4792.6	4551.7	4506.0	4483.2
12.5°	7242.1	7021.5	6499.1	5921.0	5317.5	4784.9	4300.6	3950.7	3717.4	3664.1	3585.5
15°	7221.8	6947.9	6291.2	5566.0	4800.2	4151.0	3641.3	3233.1	3020.1	2878.1	2880.6
17.5°	7204.0	6864.3	6057.9	5178.0	4353.9	3605.8	3042.9	2675.2	2480.0	2403.9	2396.3
20°	7178.7	6765.4	5789.1	4769.7	3844.2	3108.8	2599.1	2325.3	2193.4	2130.0	2127.5
22.5°	7168.5	6669.0	5525.4	4353.9	3392.8	2725.9	2305.0	2112.3	2028.6	1985.5	1985.5
25°	7193.9	6600.5	5249.0	3958.3	2992.2	2398.8	2102.1	1970.3	1922.1	1899.3	1891.7
27.5°	7272.5	6570.1	4975.1	3562.7	2624.5	2175.7	1965.2	1873.9	1838.4	1820.7	1823.2
30°	7422.1	6567.6	4706.3	3172.2	2350.6	2005.8	1856.2	1792.8	1764.9	1754.7	1752.2
32.5°	7663.0	6623.4	4442.6	2850.2	2119.9	1863.8	1754.7	1709.1	1696.4	1688.8	1686.3
35°	8071.3	6780.6	4181.4	2556.0	1942.4	1737.0	1658.4	1635.6	1617.8	1625.4	1627.9
37.5°	8621.5	7051.9	3932.9	2325.3	1808.0	1643.2	1577.2	1556.9	1546.8	1554.4	1562.0
40°	9359.4	7442.4	3725.0	2140.2	1711.6	1564.6	1506.2	1488.5	1478.3	1491.0	1493.6
42.5°	10173.4	7893.8	3552.6	1995.6	1633.0	1498.6	1442.8	1422.6	1414.9	1422.6	1425.1
45°	11010.2	8418.7	3463.8	1891.7	1567.1	1450.4	1392.1	1369.3	1351.6	1346.5	1354.1
47.5°	11834.3	8875.1	3461.3	1828.3	1513.8	1407.3	1343.9	1318.6	1295.8	1283.1	1280.6
50°	12506.3	9237.7	3522.1	1800.4	1468.2	1359.2	1295.8	1270.4	1240.0	1214.6	1219.7
52.5°	13013.4	9473.5	3550.0	1787.7	1442.8	1308.4	1245.0	1222.2	1186.7	1153.8	1153.8
55°	13340.5	9529.3	3481.6	1775.0	1422.6	1255.2	1186.7	1166.4	1130.9	1098.0	1098.0
57.5°	13452.1	9356.9	3235.6	1744.6	1402.3	1209.5	1128.4	1110.7	1082.8	1049.8	1044.7
60°	13193.5	8773.7	2804.5	1653.3	1361.7	1161.4	1065.0	1057.4	1047.3	1019.4	1016.8
62.5°	12196.9	7536.2	2335.4	1534.1	1293.2	1110.7	1006.7	1019.4	1027.0	1011.8	1009.2
65°	10538.5	6118.7	1995.6	1369.3	1201.9	1039.7	943.3	976.3	996.5	996.5	991.5
67.5°	8548.0	4698.7	1681.2	1227.3	1087.8	943.3	872.3	897.7	912.9	907.8	920.5
70°	6075.6	3182.4	1369.3	1065.0	943.3	834.3	781.0	781.0	770.9	765.8	765.8
72.5°	2946.5	1818.1	1110.7	890.0	803.8	712.5	669.4	651.7	631.4	628.9	616.2
73°	2462.2	1630.5	1059.9	857.1	770.9	694.8	646.6	618.7	606.0	595.9	593.4
75°	1498.6	1237.4	885.0	722.7	656.8	598.4	555.3	530.0	517.3	509.7	507.1
77.5°	986.4	923.0	687.2	552.8	502.1	466.6	448.8	423.5	415.9	405.7	405.7
80°	735.4	704.9	491.9	390.5	360.1	329.6	324.6	319.5	299.2	286.5	281.5
82.5°	474.2	502.1	334.7	261.2	228.2	202.9	205.4	213.0	192.7	175.0	169.9
85°	337.3	362.6	202.9	119.2	96.4	83.7	93.8	83.7	86.2	68.5	55.8
87.5°	55.8	96.4	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)