

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: P456751

Luminaire Tested: **GALN-SA8A-740-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456751
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-SA8A-740-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 615mA 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: 36861 lumens
Efficiency: N/A
Efficacy: 151.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

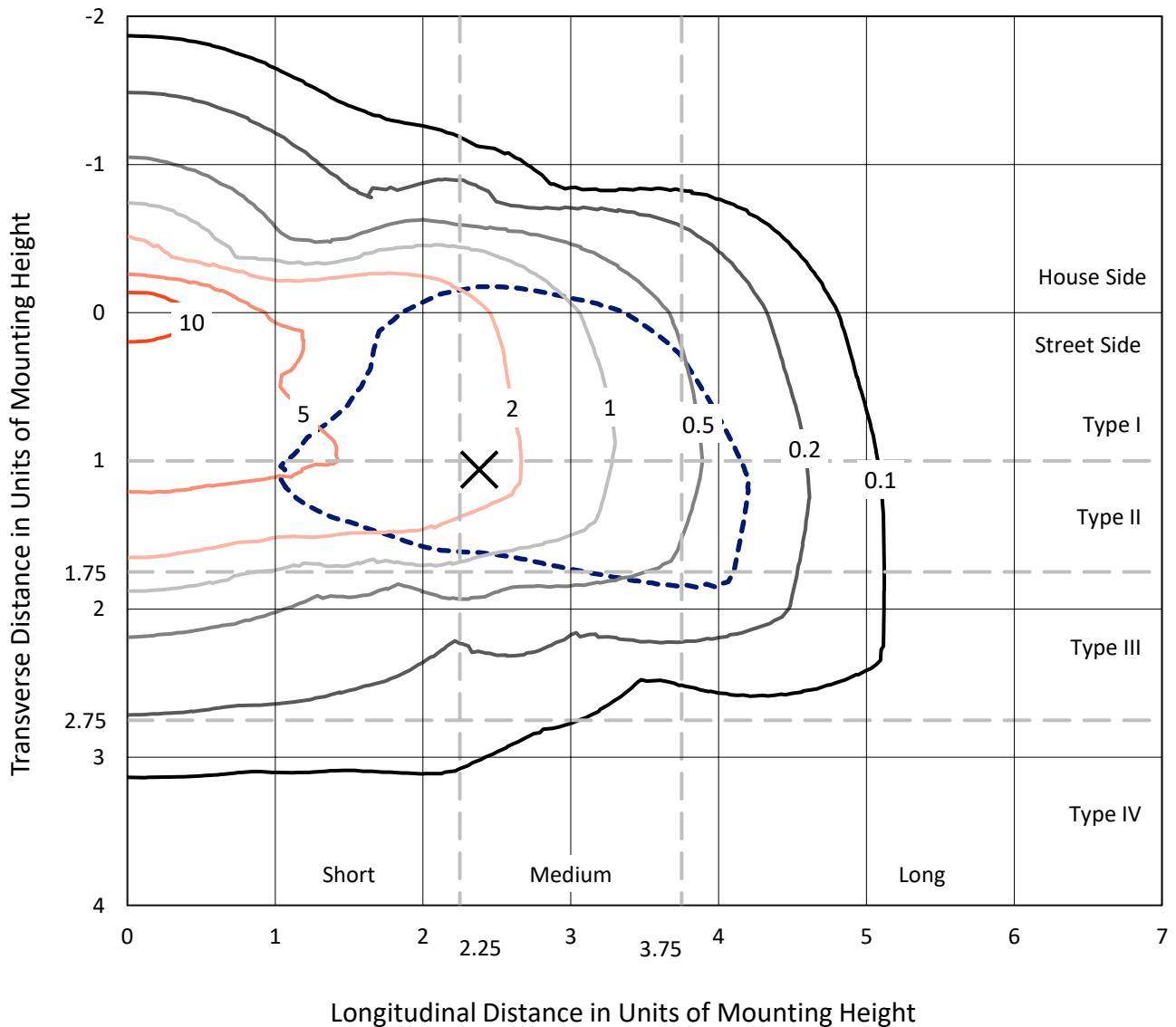
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

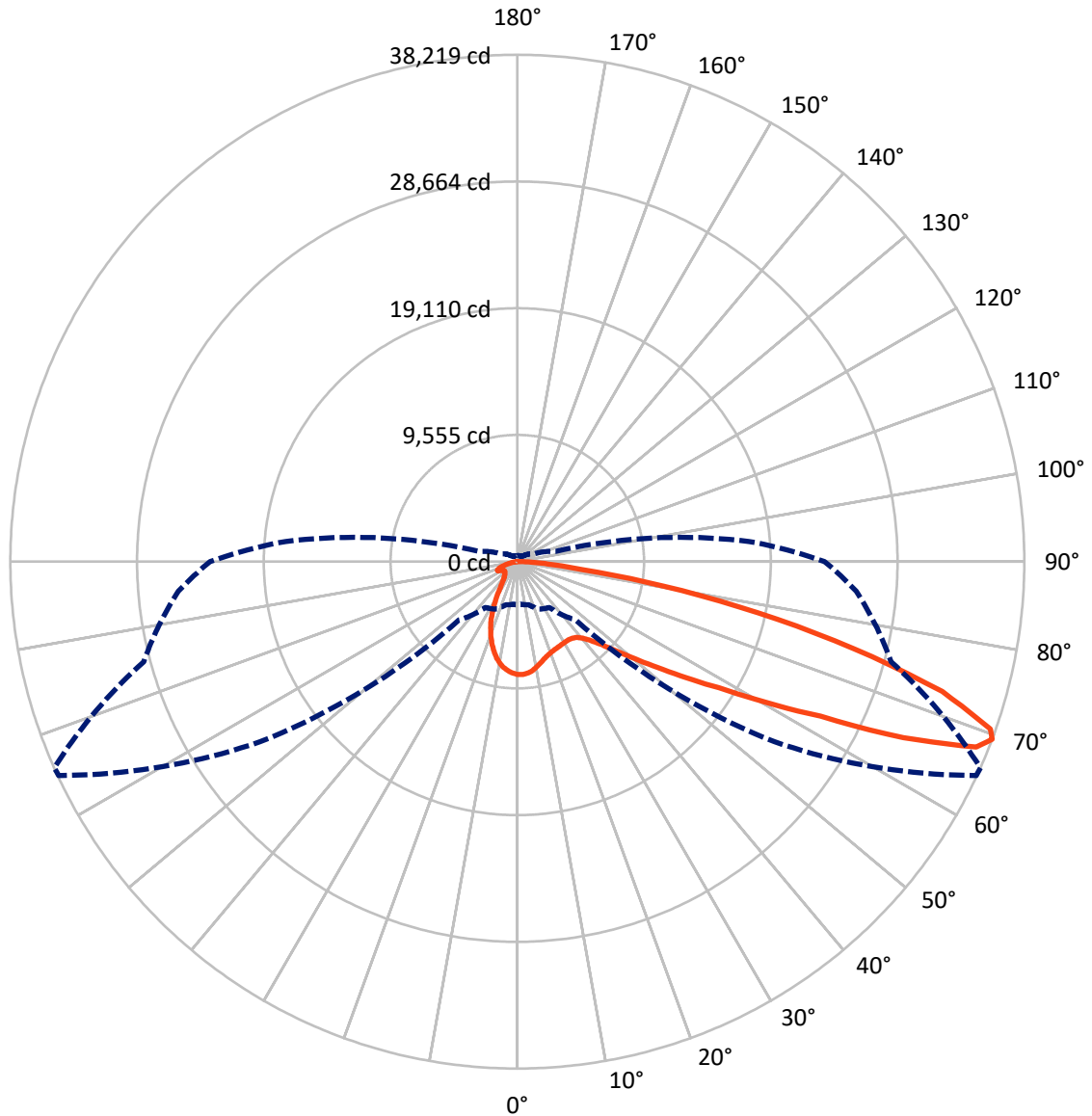
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 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	6932.2	0.0	6932.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	29928.8	0.0	29928.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	36861.0	0.0	36861.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	739.2	2.0
10°-20°	1753.3	4.8
20°-30°	2386.9	6.5
30°-40°	3207.5	8.7
40°-50°	4789.3	13.0
50°-60°	7618.2	20.7
60°-70°	9369.9	25.4
70°-80°	6096.5	16.5
80°-90°	900.3	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°	36861.0	100.0
0°-180°	36861.0	100.0

Coefficient of Utilization



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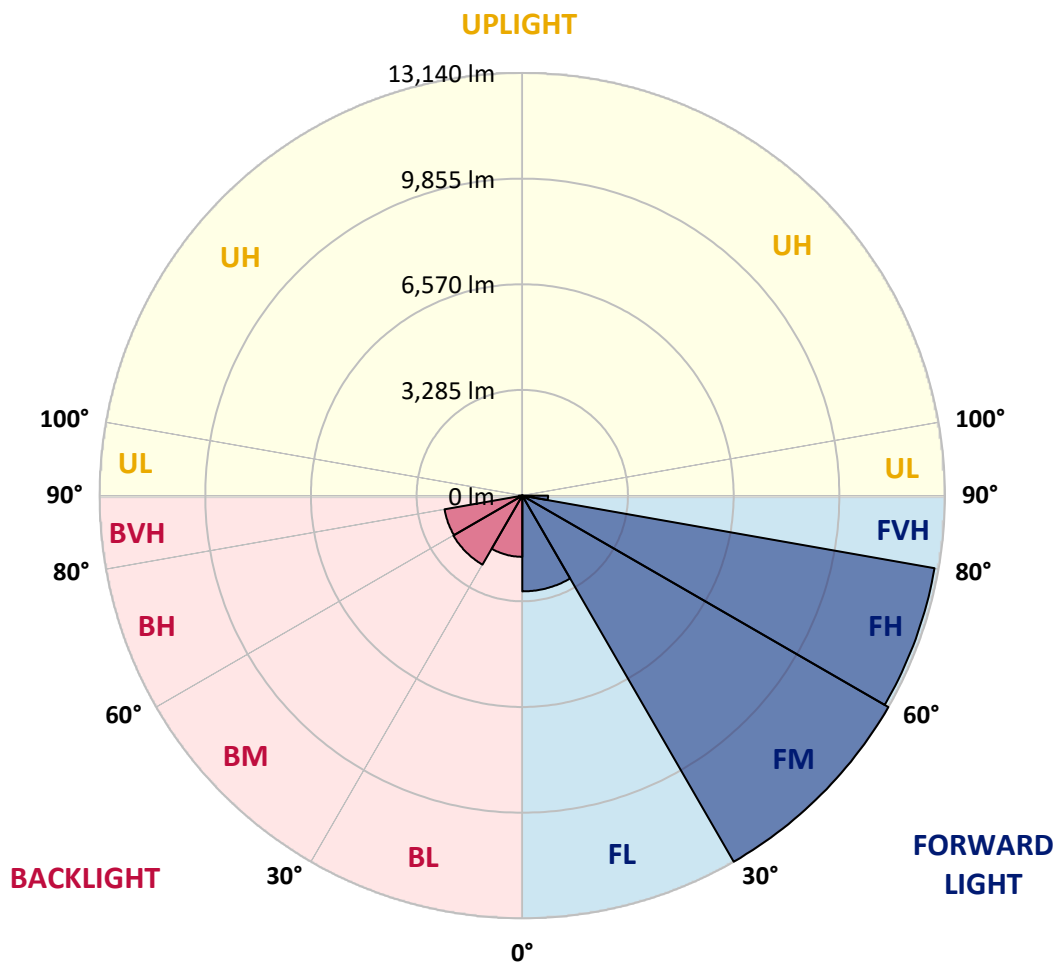
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2976.5	8.1			
FM	(30°-60°)	13139.8	35.6			
FH	(60°-80°)	13012.1	35.3			G5
FVH	(80°-90°)	800.4	2.2			G5
BL	(0°-30°)	1902.9	5.2	B3/2500		
BM	(30°-60°)	2475.1	6.7	B2/2500		
BH	(60°-80°)	2454.3	6.7	B3/2500		G3/2500
BVH	(80°-90°)	99.9	0.3			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	8512.2	8512.2	8512.2	8512.2	8512.2	8512.2	8512.2	8512.2	8512.2	8512.2	8512.2
2.5°	8214.2	8246.9	8283.6	8324.4	8402.0	8444.9	8475.5	8510.2	8514.3	8532.6	8518.4
5°	7607.9	7646.7	7701.8	7779.4	7895.8	8077.4	8265.2	8418.3	8436.7	8522.4	8546.9
7.5°	7101.7	7124.1	7169.1	7293.6	7458.9	7661.0	7934.5	8244.8	8289.7	8493.9	8565.3
10°	6689.3	6711.8	6764.9	6893.5	7056.8	7309.9	7610.0	8018.2	8055.0	8406.1	8569.4
12.5°	6381.1	6401.5	6458.7	6585.2	6773.0	7009.8	7340.5	7773.3	7826.4	8289.7	8530.6
15°	6146.4	6185.1	6232.1	6336.2	6534.2	6762.8	7083.3	7548.7	7591.6	8167.2	8504.1
17.5°	6046.3	6064.7	6097.4	6193.3	6338.2	6562.8	6885.3	7373.2	7424.2	8081.5	8497.9
20°	6050.4	6068.8	6074.9	6128.0	6232.1	6426.0	6744.5	7234.4	7295.6	8006.0	8508.1
22.5°	6189.2	6191.3	6168.8	6150.4	6191.3	6352.5	6644.4	7130.3	7201.7	7973.3	8516.3
25°	6403.6	6440.3	6407.6	6321.9	6246.4	6324.0	6605.7	7073.1	7140.5	7926.4	8506.1
27.5°	6750.6	6756.7	6730.2	6613.8	6417.9	6360.7	6589.3	7030.2	7087.4	7891.7	8455.1
30°	7216.0	7197.6	7173.1	7044.5	6736.3	6501.5	6624.0	6991.5	7050.7	7840.6	8393.8
32.5°	7687.5	7744.7	7722.2	7571.2	7171.1	6775.1	6736.3	6987.4	7036.4	7801.9	8326.5
35°	8187.7	8214.2	8320.3	8242.8	7832.5	7218.0	6946.6	7050.7	7089.4	7803.9	8279.5
37.5°	8579.6	8651.0	8900.1	8967.4	8581.6	7803.9	7287.4	7230.3	7246.6	7903.9	8297.9
40°	9053.2	9175.7	9496.1	9771.7	9518.6	8565.3	7867.2	7563.0	7583.4	8144.8	8418.3
42.5°	9653.3	9739.1	10169.8	10543.3	10502.5	9571.7	8569.4	8108.1	8118.3	8624.5	8755.1
45°	10355.5	10478.0	10961.8	11523.1	11619.1	10710.7	9583.9	8932.7	8926.6	9369.6	9383.9
47.5°	11253.7	11329.2	11808.9	12421.3	12809.2	12141.7	10814.8	10116.7	10051.4	10455.5	10339.2
50°	12080.4	12198.8	12562.2	13231.7	14197.3	13817.6	12433.6	11651.8	11498.7	11876.3	11680.3
52.5°	12427.4	12552.0	12858.2	13689.0	15387.3	15985.4	14489.2	13482.8	13227.6	13517.5	13446.1
55°	11825.3	11986.5	12272.3	13282.8	15909.9	18486.0	17261.2	15599.6	15413.9	15289.4	15309.8
57.5°	10206.5	10359.6	10745.4	11860.0	15285.3	20300.7	21219.3	18320.7	17922.6	17349.0	17447.0
60°	7769.2	7865.1	8065.2	9300.2	13433.8	20772.3	25714.3	21760.3	21507.2	19400.5	19469.9
62.5°	5517.6	5625.8	5764.6	6381.1	9835.0	19443.4	29233.5	26563.5	25659.2	21525.5	21458.2
65°	4480.7	4407.2	4574.6	4862.4	5770.8	15068.9	30025.5	33230.4	31985.2	24324.2	23389.2
67.5°	3684.6	3607.0	3772.3	4284.7	4388.8	8747.0	27171.8	37557.9	37308.9	27367.7	25350.9
69°	3262.0	3221.2	3366.1	3949.9	4213.2	6211.7	23670.9	38160.1	38219.3	29162.0	25653.0
70°	2939.5	2955.8	3096.7	3780.5	4133.6	5121.6	20231.3	37329.3	37831.4	30058.2	25326.4
72.5°	2163.8	2198.5	2394.4	3131.4	4058.1	4345.9	12039.6	32605.7	33493.7	30111.2	23168.8
75°	1512.6	1496.3	1669.8	2357.7	3833.6	4307.1	7071.1	25216.2	26222.6	26026.6	19467.9
77.5°	990.0	1016.6	1155.4	1665.7	3225.3	4274.5	4609.3	17890.0	18543.2	17406.2	11515.0
80°	698.1	696.1	773.7	1137.0	2392.4	4107.1	3774.4	11276.2	11110.8	6840.4	3415.1
82.5°	400.1	428.7	518.5	800.2	1600.4	3615.1	3472.3	5393.1	4923.6	1949.4	1153.3
85°	222.5	232.7	308.2	483.8	934.9	2723.1	3031.3	2453.6	2314.8	814.5	496.0
87.5°	71.4	77.6	128.6	245.0	424.6	1286.0	1716.7	1132.9	1045.1	293.9	200.0
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°	8512.2	8512.2	8512.2	8512.2	8512.2	8512.2	8512.2	8512.2	8512.2	8512.2	8512.2
2.5°	8524.5	8549.0	8483.7	8420.4	8363.2	8283.6	8212.2	8153.0	8112.1	8106.0	8085.6
5°	8553.1	8555.1	8430.6	8263.2	8099.9	7920.3	7734.5	7601.8	7477.3	7407.9	7373.2
7.5°	8573.5	8555.1	8330.6	8059.1	7744.7	7418.1	7091.5	6830.2	6628.1	6548.5	6579.1
10°	8565.3	8508.1	8179.5	7744.7	7287.4	6799.6	6330.1	5962.6	5625.8	5452.3	5456.4
12.5°	8520.4	8426.5	7955.0	7391.6	6720.0	6066.7	5348.2	4852.2	4462.3	4231.6	4160.2
15°	8481.6	8318.3	7691.6	6911.8	6077.0	5144.1	4268.4	3656.0	3329.4	3147.7	3145.6
17.5°	8440.8	8214.2	7403.8	6403.6	5338.0	4137.7	3219.1	2751.7	2598.6	2616.9	2586.3
20°	8397.9	8091.7	7103.7	5838.1	4437.8	3086.4	2410.8	2220.9	2263.8	2347.5	2359.7
22.5°	8348.9	7961.1	6781.2	5215.5	3490.6	2323.0	1955.6	1927.0	2037.2	2167.9	2186.2
25°	8273.4	7797.8	6375.0	4564.4	2692.5	1871.9	1712.7	1733.1	1841.3	1951.5	1963.7
27.5°	8167.2	7595.7	5964.7	3751.9	2022.9	1606.5	1565.7	1592.2	1645.3	1712.7	1729.0
30°	8024.4	7367.1	5493.1	3049.7	1620.8	1473.8	1457.5	1471.8	1502.4	1531.0	1539.1
32.5°	7881.5	7146.6	5017.5	2335.2	1445.2	1386.0	1369.7	1369.7	1369.7	1373.8	1375.8
35°	7748.8	6938.4	4507.2	1818.8	1353.4	1316.6	1294.2	1269.7	1265.6	1251.3	1251.3
37.5°	7675.3	6748.5	3964.2	1522.8	1286.0	1259.5	1228.9	1188.0	1165.6	1167.6	1163.5
40°	7689.6	6624.0	3470.2	1355.4	1230.9	1202.3	1155.4	1108.4	1094.1	1094.1	1090.1
42.5°	7850.8	6583.2	2996.6	1267.6	1177.8	1145.2	1086.0	1043.1	1034.9	1032.9	1037.0
45°	8222.4	6683.2	2572.0	1210.5	1132.9	1083.9	1024.7	985.9	977.8	977.8	975.7
47.5°	8947.0	7007.8	2267.9	1173.7	1100.3	1037.0	975.7	937.0	922.7	918.6	918.6
50°	10073.8	7712.0	2041.3	1141.1	1059.4	994.1	930.8	885.9	863.5	861.4	859.4
52.5°	11639.5	8810.3	1953.5	1116.6	1014.5	949.2	879.8	836.9	808.4	802.2	798.1
55°	13470.6	10343.3	2074.0	1098.2	967.6	898.2	826.7	781.8	755.3	743.0	741.0
57.5°	15591.5	12184.5	2531.2	1073.7	924.7	843.1	773.7	728.7	700.2	685.9	681.8
60°	17496.0	14076.8	3329.4	1059.4	888.0	783.9	712.4	671.6	645.1	630.8	628.7
62.5°	19588.3	15881.3	4282.7	1098.2	871.6	726.7	655.3	618.5	596.1	581.8	581.8
65°	21823.6	17687.9	4913.4	1228.9	896.1	681.8	594.0	563.4	543.0	532.8	530.7
67.5°	23330.0	18312.5	4047.9	1363.6	957.4	632.8	534.8	510.3	498.1	487.9	487.9
69°	23166.7	17522.5	2986.4	1398.3	975.7	608.3	502.2	483.8	467.5	463.4	459.3
70°	22650.3	16622.3	2502.6	1375.8	961.5	585.9	481.7	459.3	445.0	440.9	438.9
72.5°	20174.2	14415.7	1863.7	1196.2	818.6	508.3	426.6	406.2	394.0	387.8	387.8
75°	16761.1	11782.4	1455.4	951.2	641.0	428.7	365.4	349.1	338.9	334.8	332.7
77.5°	9394.1	6579.1	1045.1	745.1	485.8	347.0	306.2	291.9	281.7	277.6	277.6
80°	2616.9	1880.0	614.4	492.0	330.7	263.3	242.9	232.7	218.4	208.2	214.3
82.5°	985.9	814.5	351.1	296.0	210.3	175.6	169.4	161.3	155.1	140.8	140.8
85°	479.7	396.0	224.5	157.2	116.4	91.9	87.8	83.7	79.6	69.4	71.4
87.5°	165.3	175.6	98.0	57.2	34.7	22.5	18.4	10.2	10.2	10.2	10.2
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)