

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: P455185

Luminaire Tested: **GALN-SA6B-760-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455185
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-SA6B-760-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5700K, 800mA 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: 33681 lumens
Efficiency: N/A
Efficacy: 138.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

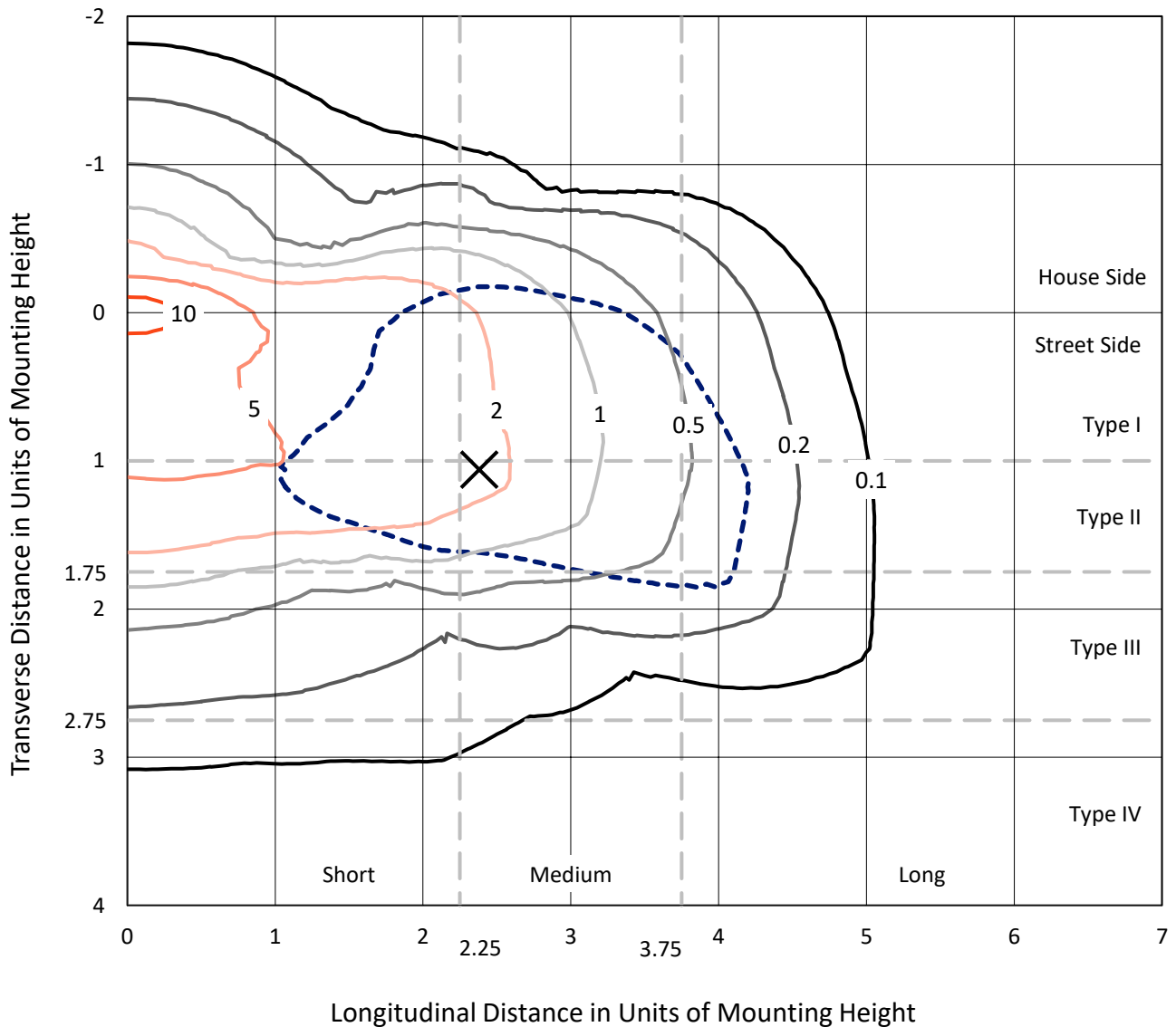
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

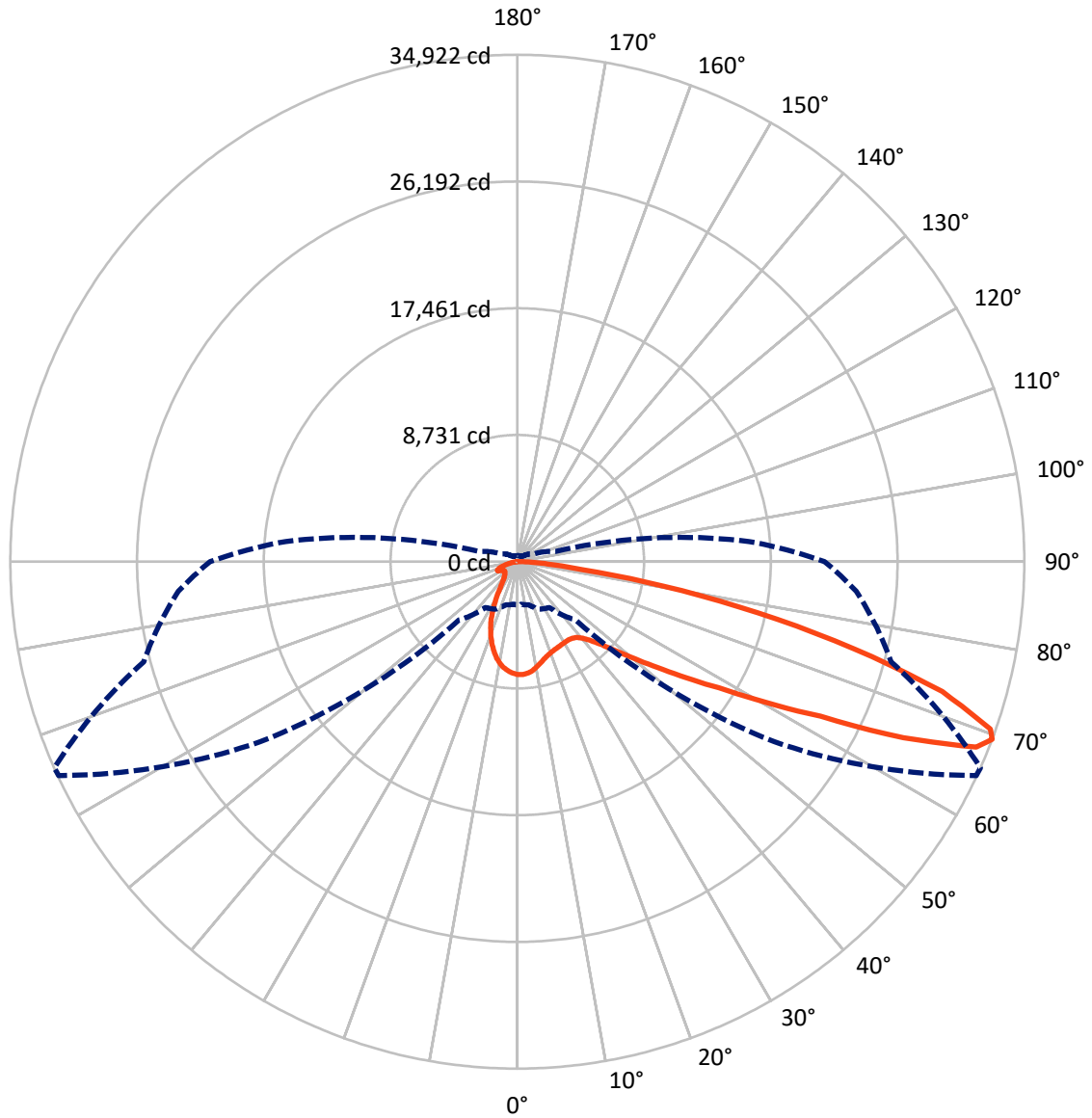
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 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	6334.1	0.0	6334.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	27346.9	0.0	27346.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	33681.0	0.0	33681.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	675.4	2.0
10°-20°	1602.0	4.8
20°-30°	2181.0	6.5
30°-40°	2930.8	8.7
40°-50°	4376.1	13.0
50°-60°	6960.9	20.7
60°-70°	8561.6	25.4
70°-80°	5570.5	16.5
80°-90°	822.6	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°	33681.0	100.0
0°-180°	33681.0	100.0

Coefficient of Utilization



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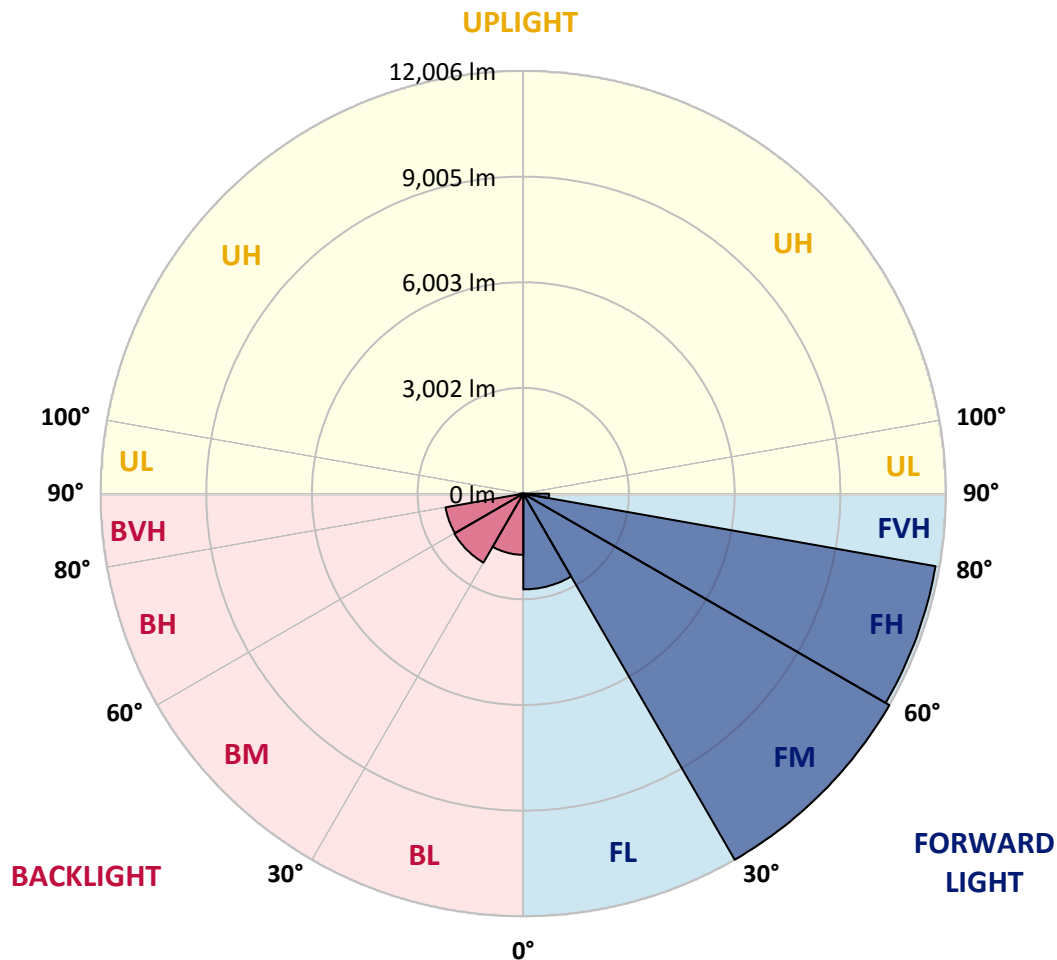
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2719.7	8.1			
FM	(30°-60°)	12006.3	35.6			
FH	(60°-80°)	11889.6	35.3			G4/12000
FVH	(80°-90°)	731.3	2.2			G4/750
BL	(0°-30°)	1738.7	5.2	B3/2500		
BM	(30°-60°)	2261.6	6.7	B2/2500		
BH	(60°-80°)	2242.6	6.7	B3/2500		G3/2500
BVH	(80°-90°)	91.3	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-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7777.9	7777.9	7777.9	7777.9	7777.9	7777.9	7777.9	7777.9	7777.9	7777.9	7777.9
2.5°	7505.6	7535.4	7569.0	7606.3	7677.2	7716.3	7744.3	7776.0	7779.7	7796.5	7783.5
5°	6951.6	6987.0	7037.4	7108.3	7214.6	7380.6	7552.2	7692.1	7708.9	7787.2	7809.6
7.5°	6489.0	6509.5	6550.6	6664.4	6815.4	7000.1	7250.0	7533.5	7574.6	7761.1	7826.4
10°	6112.3	6132.8	6181.3	6298.8	6448.0	6679.3	6953.5	7326.5	7360.1	7680.9	7830.1
12.5°	5830.6	5849.3	5901.5	6017.1	6188.7	6405.1	6707.3	7102.7	7151.2	7574.6	7794.7
15°	5616.1	5651.6	5694.5	5789.6	5970.5	6179.4	6472.2	6897.5	6936.7	7462.7	7770.4
17.5°	5524.7	5541.5	5571.3	5659.0	5791.4	5996.6	6291.3	6737.1	6783.7	7384.3	7764.8
20°	5528.4	5545.2	5550.8	5599.3	5694.5	5871.6	6162.6	6610.3	6666.2	7315.3	7774.1
22.5°	5655.3	5657.1	5636.6	5619.8	5657.1	5804.5	6071.2	6515.1	6580.4	7285.5	7781.6
25°	5851.1	5884.7	5854.9	5776.5	5707.5	5778.4	6035.8	6462.9	6524.5	7242.6	7772.3
27.5°	6168.2	6173.8	6149.6	6043.2	5864.2	5812.0	6020.9	6423.7	6476.0	7210.9	7725.7
30°	6593.5	6576.7	6554.3	6436.8	6155.2	5940.7	6052.6	6388.3	6442.4	7164.2	7669.7
32.5°	7024.3	7076.6	7056.0	6918.0	6552.4	6190.6	6155.2	6384.6	6429.3	7128.8	7608.1
35°	7481.3	7505.6	7602.6	7531.7	7156.8	6595.3	6347.3	6442.4	6477.8	7130.7	7565.2
37.5°	7839.4	7904.7	8132.3	8193.8	7841.3	7130.7	6658.8	6606.5	6621.5	7222.0	7582.0
40°	8272.2	8384.1	8676.9	8928.7	8697.4	7826.4	7188.5	6910.6	6929.2	7442.1	7692.1
42.5°	8820.5	8898.9	9292.4	9633.8	9596.4	8745.9	7830.1	7408.6	7417.9	7880.5	7999.8
45°	9462.2	9574.1	10016.1	10529.0	10616.7	9786.7	8757.1	8162.1	8156.5	8561.3	8574.3
47.5°	10282.8	10351.9	10790.2	11349.7	11704.1	11094.2	9881.8	9243.9	9184.2	9553.5	9447.2
50°	11038.2	11146.4	11478.4	12090.2	12972.5	12625.5	11360.9	10646.6	10506.7	10851.7	10672.7
52.5°	11355.3	11469.1	11748.9	12508.0	14059.9	14606.4	13239.2	12319.6	12086.5	12351.3	12286.1
55°	10805.1	10952.4	11213.6	12136.8	14537.4	16891.2	15772.1	14253.8	14084.1	13970.3	13989.0
57.5°	9326.0	9465.9	9818.4	10836.8	13966.6	18549.4	19388.7	16740.2	16376.4	15852.3	15941.9
60°	7098.9	7186.6	7369.4	8497.8	12274.9	18980.3	23495.9	19883.0	19651.7	17726.8	17790.3
62.5°	5041.6	5140.5	5267.3	5830.6	8986.5	17766.0	26711.5	24271.8	23445.5	19668.5	19607.0
65°	4094.1	4027.0	4179.9	4442.9	5272.9	13768.9	27435.2	30363.6	29225.8	22225.7	21371.4
67.5°	3366.7	3295.8	3446.9	3915.1	4010.2	7992.4	24827.7	34317.8	34090.2	25006.7	23163.9
69°	2980.6	2943.3	3075.7	3609.2	3849.8	5675.8	21628.8	34868.0	34922.1	26646.2	23440.0
70°	2685.9	2700.8	2829.5	3454.3	3777.0	4679.8	18486.0	34108.9	34567.7	27465.1	23141.5
72.5°	1977.1	2008.8	2187.9	2861.2	3708.0	3971.0	11000.9	29792.8	30604.2	27513.5	21170.0
75°	1382.1	1367.2	1525.7	2154.3	3502.8	3935.6	6461.0	23040.8	23960.3	23781.3	17788.4
77.5°	904.6	928.9	1055.7	1522.0	2947.0	3905.7	4211.6	16346.6	16943.5	15904.5	10521.6
80°	637.9	636.0	706.9	1038.9	2186.0	3752.8	3448.8	10303.4	10152.3	6250.3	3120.5
82.5°	365.6	391.7	473.8	731.2	1462.3	3303.3	3172.7	4927.9	4498.9	1781.3	1053.8
85°	203.3	212.6	281.6	442.1	854.3	2488.2	2769.8	2242.0	2115.1	744.2	453.2
87.5°	65.3	70.9	117.5	223.8	388.0	1175.1	1568.6	1035.2	955.0	268.6	182.8
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°	7777.9	7777.9	7777.9	7777.9	7777.9	7777.9	7777.9	7777.9	7777.9	7777.9	7777.9
2.5°	7789.1	7811.5	7751.8	7693.9	7641.7	7569.0	7503.7	7449.6	7412.3	7406.7	7388.1
5°	7815.2	7817.0	7703.3	7550.3	7401.1	7237.0	7067.2	6946.0	6832.2	6768.8	6737.1
7.5°	7833.8	7817.0	7611.9	7363.8	7076.6	6778.1	6479.7	6241.0	6056.3	5983.6	6011.5
10°	7826.4	7774.1	7473.9	7076.6	6658.8	6213.0	5784.0	5448.2	5140.5	4981.9	4985.7
12.5°	7785.3	7699.5	7268.7	6753.9	6140.2	5543.4	4886.8	4433.6	4077.3	3866.6	3801.3
15°	7749.9	7600.7	7028.1	6315.6	5552.7	4700.3	3900.1	3340.6	3042.1	2876.1	2874.3
17.5°	7712.6	7505.6	6765.1	5851.1	4877.5	3780.8	2941.4	2514.3	2374.4	2391.2	2363.2
20°	7673.4	7393.6	6490.9	5334.5	4054.9	2820.2	2202.8	2029.3	2068.5	2145.0	2156.2
22.5°	7628.7	7274.3	6196.2	4765.6	3189.5	2122.6	1786.9	1760.7	1861.5	1980.8	1997.6
25°	7559.7	7125.1	5825.0	4170.6	2460.2	1710.4	1564.9	1583.6	1682.4	1783.1	1794.3
27.5°	7462.7	6940.4	5450.1	3428.2	1848.4	1467.9	1430.6	1454.9	1503.4	1564.9	1579.8
30°	7332.1	6731.5	5019.2	2786.6	1481.0	1346.7	1331.8	1344.8	1372.8	1398.9	1406.4
32.5°	7201.5	6530.1	4584.7	2133.8	1320.6	1266.5	1251.5	1251.5	1251.5	1255.3	1257.1
35°	7080.3	6339.8	4118.4	1661.9	1236.6	1203.1	1182.5	1160.2	1156.4	1143.4	1143.4
37.5°	7013.1	6166.3	3622.2	1391.4	1175.1	1150.8	1122.8	1085.5	1065.0	1066.9	1063.2
40°	7026.2	6052.6	3170.8	1238.5	1124.7	1098.6	1055.7	1012.8	999.7	999.7	996.0
42.5°	7173.6	6015.3	2738.1	1158.3	1076.2	1046.4	992.3	953.1	945.7	943.8	947.5
45°	7513.0	6106.7	2350.2	1106.1	1035.2	990.4	936.3	900.9	893.4	893.4	891.6
47.5°	8175.2	6403.2	2072.2	1072.5	1005.3	947.5	891.6	856.1	843.1	839.3	839.3
50°	9204.8	7046.7	1865.2	1042.6	968.0	908.4	850.5	809.5	789.0	787.1	785.2
52.5°	10635.4	8050.2	1785.0	1020.3	927.0	867.3	803.9	764.7	738.6	733.0	729.3
55°	12308.4	9451.0	1895.0	1003.5	884.1	820.7	755.4	714.4	690.1	678.9	677.1
57.5°	14246.4	11133.4	2312.8	981.1	844.9	770.3	706.9	665.9	639.8	626.7	623.0
60°	15986.6	12862.4	3042.1	968.0	811.4	716.2	651.0	613.7	589.4	576.3	574.5
62.5°	17898.4	14511.2	3913.2	1003.5	796.4	664.0	598.7	565.2	544.6	531.6	531.6
65°	19940.8	16161.9	4489.5	1122.8	818.8	623.0	542.8	514.8	496.1	486.8	485.0
67.5°	21317.4	16732.7	3698.7	1246.0	874.8	578.2	488.7	466.3	455.1	445.8	445.8
69°	21168.1	16010.9	2728.8	1277.7	891.6	555.8	458.8	442.1	427.1	423.4	419.7
70°	20696.2	15188.3	2286.7	1257.1	878.5	535.3	440.2	419.7	406.6	402.9	401.0
72.5°	18433.8	13172.0	1702.9	1093.0	747.9	464.4	389.8	371.2	360.0	354.4	354.4
75°	15315.1	10765.9	1329.9	869.2	585.7	391.7	333.9	318.9	309.6	305.9	304.0
77.5°	8583.6	6011.5	955.0	680.8	443.9	317.1	279.8	266.7	257.4	253.7	253.7
80°	2391.2	1717.8	561.4	449.5	302.2	240.6	222.0	212.6	199.6	190.3	195.8
82.5°	900.9	744.2	320.8	270.5	192.1	160.4	154.8	147.4	141.8	128.7	128.7
85°	438.3	361.8	205.2	143.6	106.3	83.9	80.2	76.5	72.7	63.4	65.3
87.5°	151.1	160.4	89.5	52.2	31.7	20.5	16.8	9.3	9.3	9.3	9.3
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)