

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: P456753

Luminaire Tested: **GALN-SA8A-740-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456753
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
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-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36602 lumens
Efficiency: N/A
Efficacy: 150.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

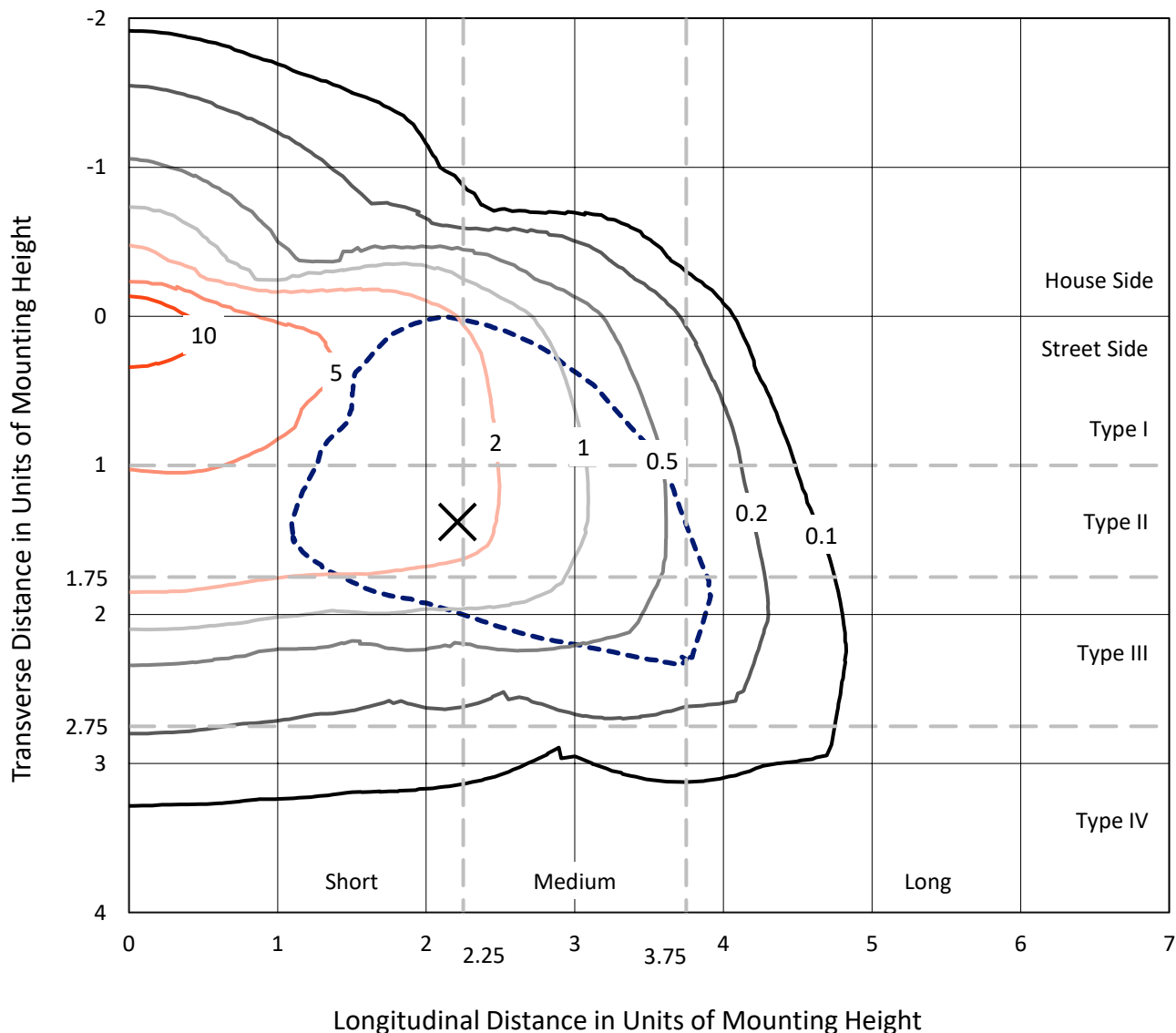
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

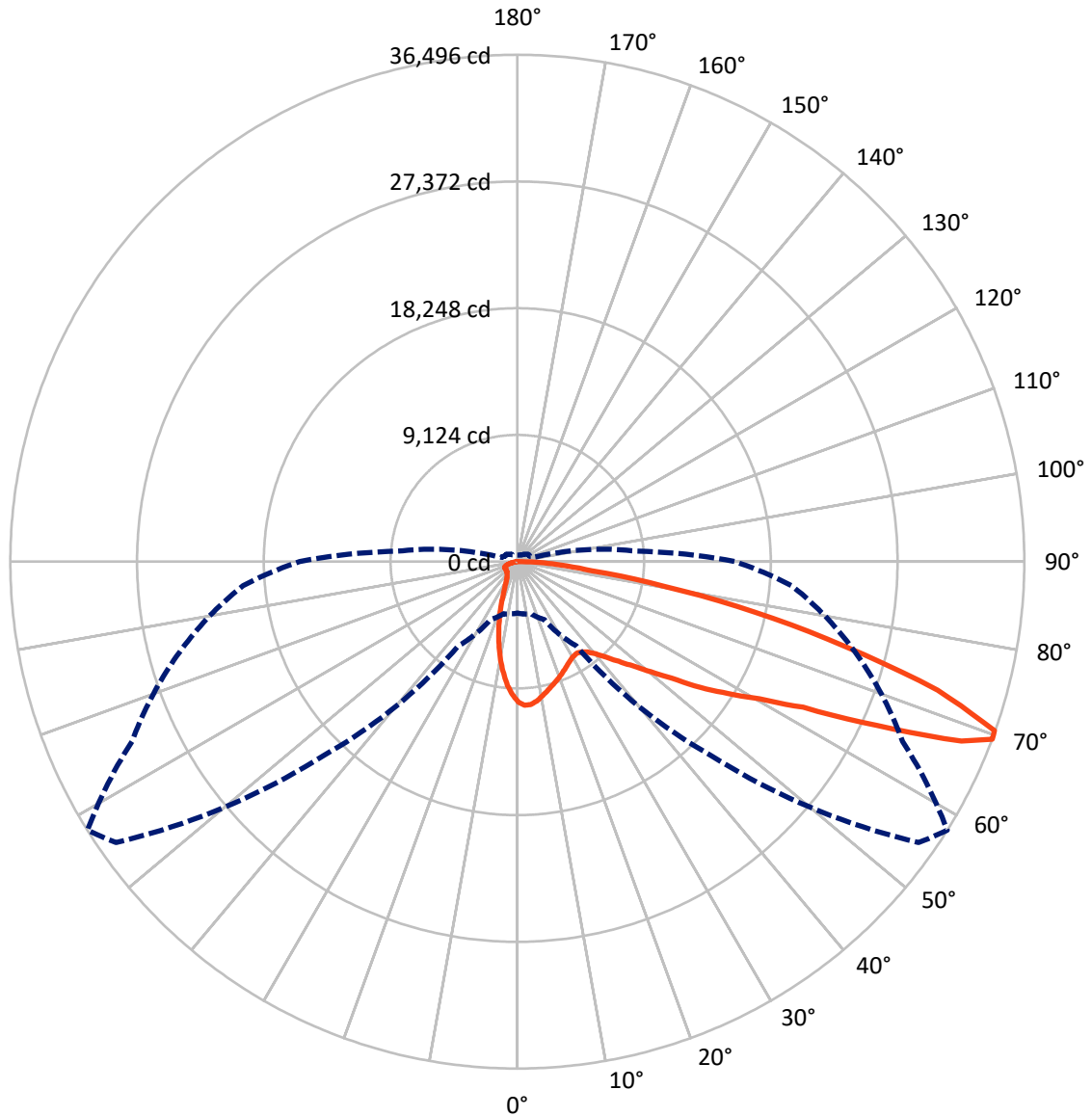
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5364.0	0.0	5364.0
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	31238.0	0.0	31238.0
	% Fixture	85.3	0.0	85.3
Total	Lumens	36602.0	0.0	36602.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	859.0	2.3
10°-20°	1886.2	5.2
20°-30°	2437.0	6.7
30°-40°	3165.1	8.6
40°-50°	4601.6	12.6
50°-60°	7342.7	20.1
60°-70°	9809.0	26.8
70°-80°	5654.5	15.4
80°-90°	846.9	2.3
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°	36602.0	100.0
0°-180°	36602.0	100.0

Coefficient of Utilization



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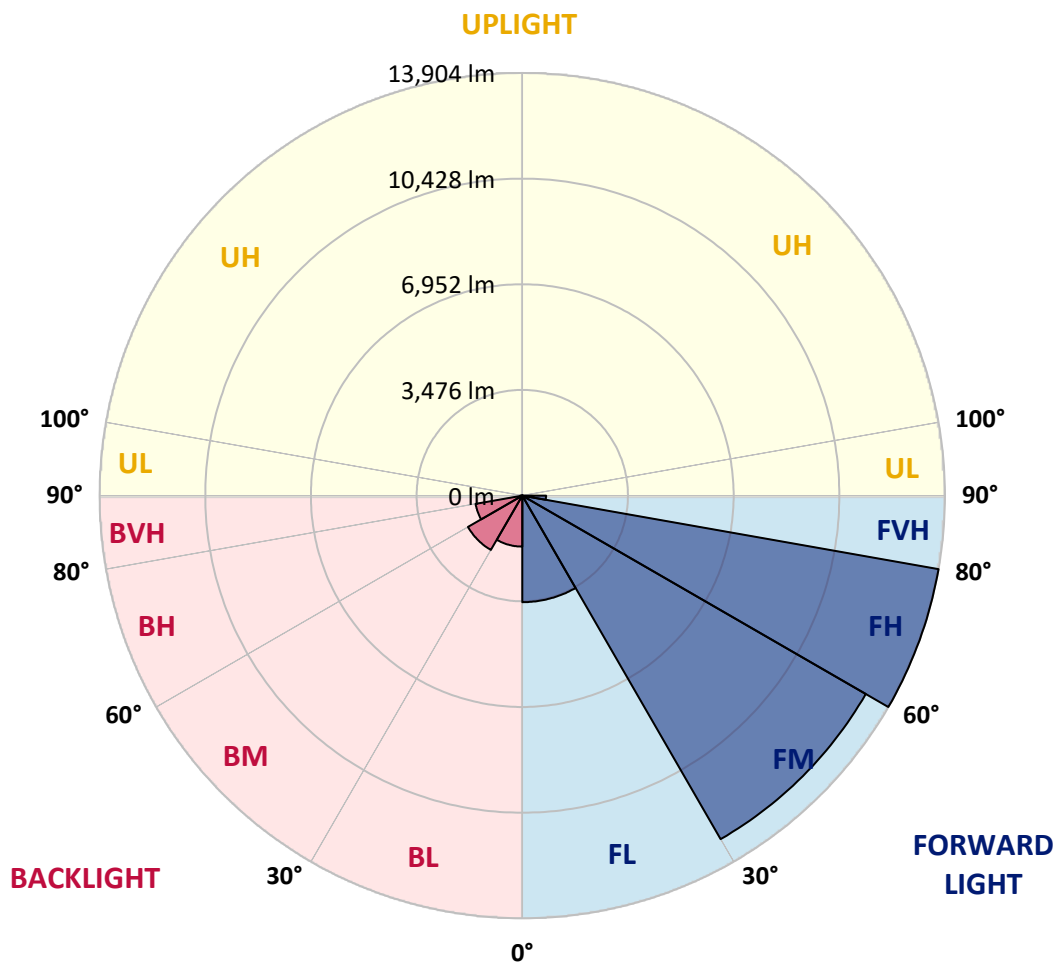
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3505.5	9.6			
FM	(30°-60°)	13046.7	35.6			
FH	(60°-80°)	13903.7	38.0			G5
FVH	(80°-90°)	782.0	2.1			G5
BL	(0°-30°)	1676.6	4.6	B3/2500		
BM	(30°-60°)	2062.8	5.6	B2/2500		
BH	(60°-80°)	1559.8	4.3	B3/2500		G3/2500
BVH	(80°-90°)	64.9	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	10114.6	10114.6	10114.6	10114.6	10114.6	10114.6	10114.6	10114.6	10114.6	10114.6	10114.6
2.5°	10490.2	10518.8	10510.7	10500.5	10484.1	10439.2	10365.7	10353.5	10306.5	10206.5	10082.0
5°	10329.0	10353.5	10355.5	10369.8	10390.2	10382.1	10329.0	10322.9	10253.5	10118.7	9910.5
7.5°	9775.8	9808.5	9879.9	9959.5	10031.0	10098.3	10114.6	10124.9	10082.0	9926.9	9649.2
10°	9153.2	9185.9	9218.5	9336.9	9512.5	9679.9	9818.7	9837.0	9847.2	9704.3	9365.5
12.5°	8463.2	8530.6	8600.0	8775.6	9010.3	9273.6	9518.6	9557.4	9626.8	9518.6	9120.5
15°	7877.4	7946.8	8046.8	8204.0	8487.7	8867.4	9212.4	9275.7	9412.4	9357.3	8891.9
17.5°	7471.2	7495.7	7565.1	7744.7	8050.9	8451.0	8912.3	9038.9	9257.3	9243.0	8695.9
20°	7150.7	7181.3	7224.2	7334.4	7652.8	8075.4	8632.7	8796.0	9092.0	9140.9	8502.0
22.5°	7016.0	7038.4	7032.3	7091.5	7307.9	7732.5	8348.9	8542.8	8945.0	9071.5	8322.4
25°	7024.1	7044.5	7013.9	6999.6	7128.2	7430.3	8052.9	8299.9	8826.6	9024.6	8159.1
27.5°	7160.9	7175.2	7118.0	7060.9	7071.1	7242.5	7808.0	8081.5	8726.6	9045.0	8022.3
30°	7344.6	7371.1	7334.4	7265.0	7189.5	7197.6	7650.8	7920.3	8679.6	9116.5	7957.0
32.5°	7581.4	7605.9	7589.6	7534.4	7436.5	7328.3	7612.0	7861.1	8683.7	9261.4	7942.7
35°	7830.4	7879.4	7906.0	7901.9	7822.3	7634.5	7765.1	7971.3	8781.7	9504.3	8026.4
37.5°	8112.1	8153.0	8267.3	8340.8	8267.3	8048.9	8110.1	8253.0	8998.1	9855.4	8210.1
40°	8385.7	8446.9	8614.3	8842.9	8814.3	8622.5	8636.7	8730.6	9379.8	10378.0	8569.4
42.5°	8671.4	8744.9	9036.8	9375.7	9443.1	9294.0	9332.8	9416.5	9922.8	11102.6	9185.9
45°	9038.9	9126.7	9485.9	9908.5	10173.8	10082.0	10192.2	10233.0	10649.5	12045.7	9998.3
47.5°	9512.5	9614.5	10057.5	10584.1	10959.7	11043.4	11235.3	11210.8	11549.7	13162.3	11051.6
50°	10310.6	10367.8	10786.2	11323.1	11839.5	12217.2	12425.4	12464.2	12666.3	14248.3	12229.4
52.5°	11259.8	11310.9	11613.0	12082.5	12729.6	13529.7	14044.2	13917.6	13966.6	15571.0	13607.3
55°	12327.4	12413.2	12605.0	12917.4	13756.3	14934.2	15967.1	15997.7	15454.7	16836.7	14928.0
57.5°	13154.1	13299.1	13627.7	14072.7	15136.3	16495.8	17883.8	17904.3	17210.2	18188.0	16385.5
60°	12737.7	12909.2	13660.4	14744.3	16946.9	19220.9	20174.2	20057.8	18918.8	19727.1	18163.5
62.5°	10941.4	10972.0	12064.1	13758.4	17504.2	22866.7	23583.2	23091.2	21198.9	21678.6	19970.1
65°	7081.3	7281.3	8146.8	10520.9	15673.1	24889.6	29556.0	28419.0	24395.6	23893.4	21482.7
67.5°	4470.5	4419.4	4778.7	6007.6	10780.1	23107.5	34653.1	34473.5	28576.2	25291.7	21121.3
69°	3707.0	3764.2	3886.6	4605.2	7418.1	19729.2	35255.3	36496.4	30603.2	25181.5	19808.8
70°	3362.0	3388.6	3517.2	4082.6	5723.8	16524.3	34267.3	36441.3	31399.3	24720.2	18857.5
72.5°	2668.0	2665.9	2886.4	3396.7	4278.6	9432.9	28137.3	31638.1	30509.3	22572.7	15581.3
75°	2027.0	2059.7	2302.6	2874.2	3941.8	5154.3	19635.3	24365.0	24367.0	17828.7	9722.7
77.5°	1461.6	1482.0	1765.7	2412.8	3713.1	4178.5	13078.6	17475.6	16428.4	8169.3	3055.8
80°	957.4	969.6	1186.0	1910.7	3347.7	3941.8	7754.9	10696.4	7748.8	2167.9	1010.4
82.5°	524.6	585.9	724.7	1237.0	2686.4	3641.7	4713.4	5413.5	2906.8	965.5	526.7
85°	263.3	279.7	408.3	722.6	1755.5	3013.0	3282.4	3104.8	1500.4	479.7	273.5
87.5°	77.6	98.0	169.4	279.7	712.4	1569.8	1827.0	1639.2	577.7	173.5	57.2
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°	10114.6	10114.6	10114.6	10114.6	10114.6	10114.6	10114.6	10114.6	10114.6	10114.6	10114.6
2.5°	10031.0	9994.2	9830.9	9683.9	9549.2	9406.3	9285.9	9179.7	9189.9	9192.0	9083.8
5°	9802.3	9718.6	9408.4	9118.5	8873.5	8563.3	8297.9	8126.4	8040.7	7926.4	7967.2
7.5°	9492.1	9330.8	8900.1	8418.3	7967.2	7565.1	7128.2	6828.2	6636.3	6450.5	6475.0
10°	9171.6	8912.3	8285.6	7648.8	7064.9	6421.9	5864.7	5387.0	5031.8	4899.1	4811.3
12.5°	8842.9	8502.0	7705.9	6858.8	6052.5	5282.9	4492.9	3980.5	3588.6	3380.4	3406.9
15°	8542.8	8128.5	7101.7	6068.8	5021.6	4105.1	3317.1	2829.2	2555.7	2498.6	2531.2
17.5°	8265.2	7722.2	6536.2	5301.3	4078.5	3078.3	2492.4	2216.9	2106.6	2076.0	2074.0
20°	7979.4	7377.3	5901.4	4480.7	3178.3	2386.3	2045.4	1916.8	1896.4	1908.6	1910.7
22.5°	7689.6	6950.6	5248.2	3666.2	2531.2	1951.5	1788.2	1753.5	1769.8	1798.4	1802.5
25°	7422.2	6575.0	4619.5	2951.7	2020.9	1714.7	1635.1	1635.1	1671.8	1714.7	1716.7
27.5°	7201.7	6211.7	3992.8	2343.4	1692.2	1543.2	1516.7	1531.0	1582.0	1614.7	1616.7
30°	7020.0	5872.8	3400.8	1878.0	1488.1	1406.5	1400.3	1424.8	1461.6	1492.2	1494.2
32.5°	6883.3	5574.8	2847.6	1577.9	1347.3	1302.4	1300.3	1318.7	1339.1	1347.3	1355.4
35°	6830.2	5327.8	2341.4	1388.1	1253.4	1224.8	1224.8	1222.7	1230.9	1235.0	1239.1
37.5°	6873.1	5138.0	1949.4	1265.6	1184.0	1163.5	1151.3	1139.0	1135.0	1135.0	1137.0
40°	7054.7	5037.9	1657.5	1186.0	1135.0	1104.3	1081.9	1067.6	1053.3	1057.4	1061.5
42.5°	7440.5	5056.3	1459.5	1132.9	1092.1	1049.2	1016.6	1000.2	990.0	1002.3	1000.2
45°	8055.0	5240.0	1333.0	1096.2	1049.2	994.1	963.5	947.2	947.2	965.5	971.7
47.5°	8914.4	5591.1	1265.6	1067.6	1016.6	951.2	920.6	908.4	912.5	943.1	945.1
50°	9963.6	6201.5	1253.4	1053.3	1000.2	920.6	885.9	873.7	883.9	916.5	920.6
52.5°	11121.0	6987.4	1312.6	1055.4	985.9	902.3	857.3	839.0	849.2	875.7	883.9
55°	12492.8	7971.3	1465.7	1063.5	965.5	892.0	836.9	796.1	808.4	826.7	828.8
57.5°	13893.1	9212.4	1735.1	1065.6	949.2	873.7	802.2	749.2	749.2	761.4	767.5
60°	15603.7	10563.7	2090.3	1067.6	951.2	847.1	755.3	696.1	687.9	694.0	696.1
62.5°	17302.1	11694.6	2149.5	1061.5	971.7	820.6	704.2	643.0	628.7	626.7	622.6
65°	18051.2	11484.4	1761.6	1032.9	994.1	804.3	663.4	592.0	567.5	559.3	559.3
67.5°	16830.5	9714.6	1324.8	994.1	979.8	787.9	624.6	549.1	520.5	504.2	504.2
69°	15683.3	8640.8	1190.1	967.6	943.1	761.4	600.1	526.7	492.0	473.6	467.5
70°	14797.4	7901.9	1132.9	945.1	908.4	730.8	581.8	510.3	471.5	451.1	447.0
72.5°	11808.9	6199.4	992.1	859.4	773.7	614.4	516.4	459.3	422.5	400.1	394.0
75°	6805.7	3360.0	822.6	747.1	622.6	477.7	436.8	400.1	371.5	351.1	345.0
77.5°	2094.4	1298.3	596.1	589.9	457.3	369.5	349.1	334.8	314.4	291.9	287.8
80°	881.8	661.4	404.2	398.1	304.2	257.2	251.1	249.0	240.9	222.5	216.4
82.5°	483.8	373.6	281.7	245.0	183.7	149.0	155.1	157.2	151.1	132.7	120.4
85°	236.8	204.1	136.8	110.2	83.7	53.1	51.0	61.2	57.2	40.8	44.9
87.5°	46.9	57.2	36.7	16.3	8.2	0.0	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)