

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: P456983

Luminaire Tested: **GALN-SA8B-740-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456983  
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-SA8B-740-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 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: 45865 lumens  
Efficiency: N/A  
Efficacy: 141.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

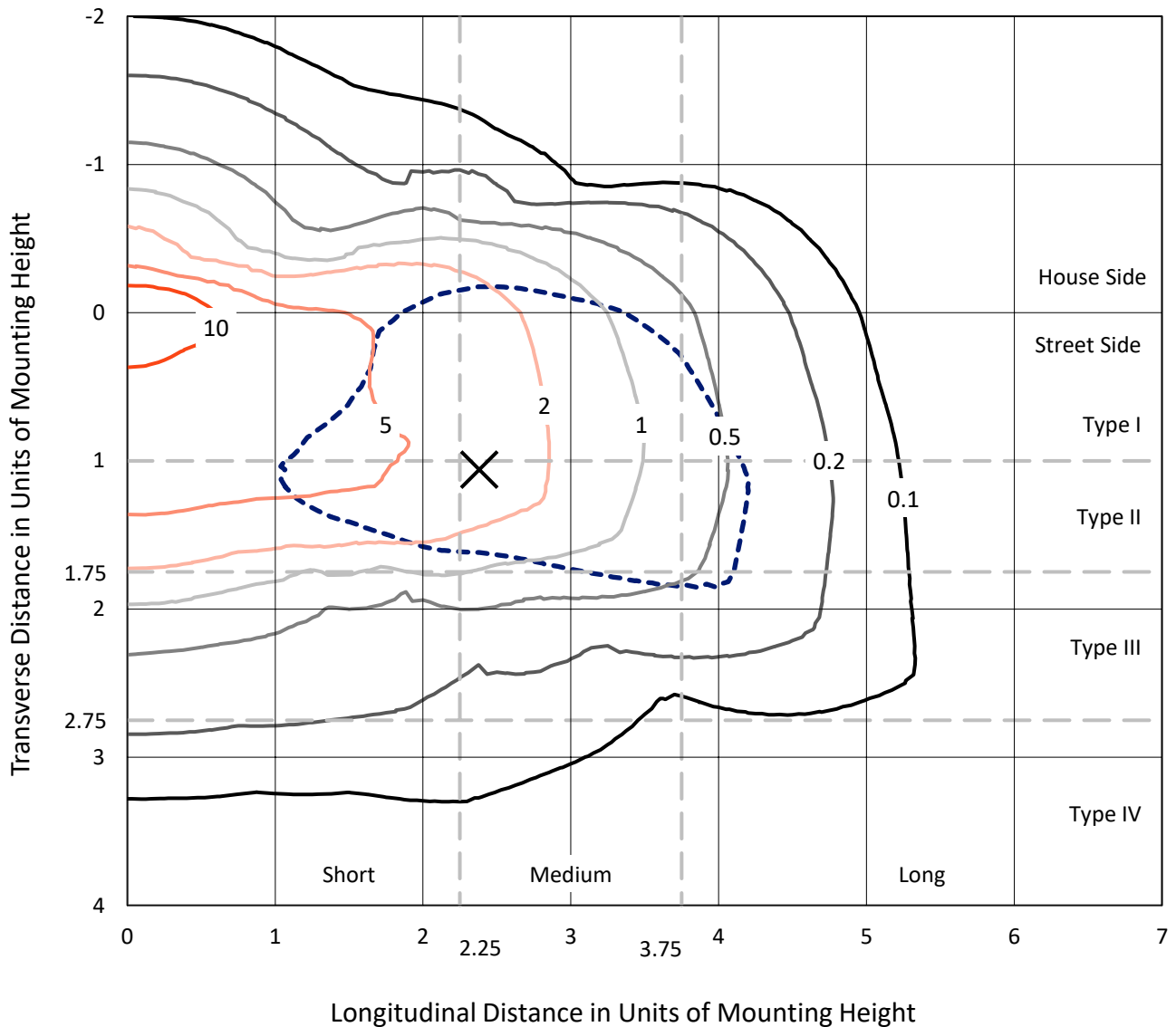
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

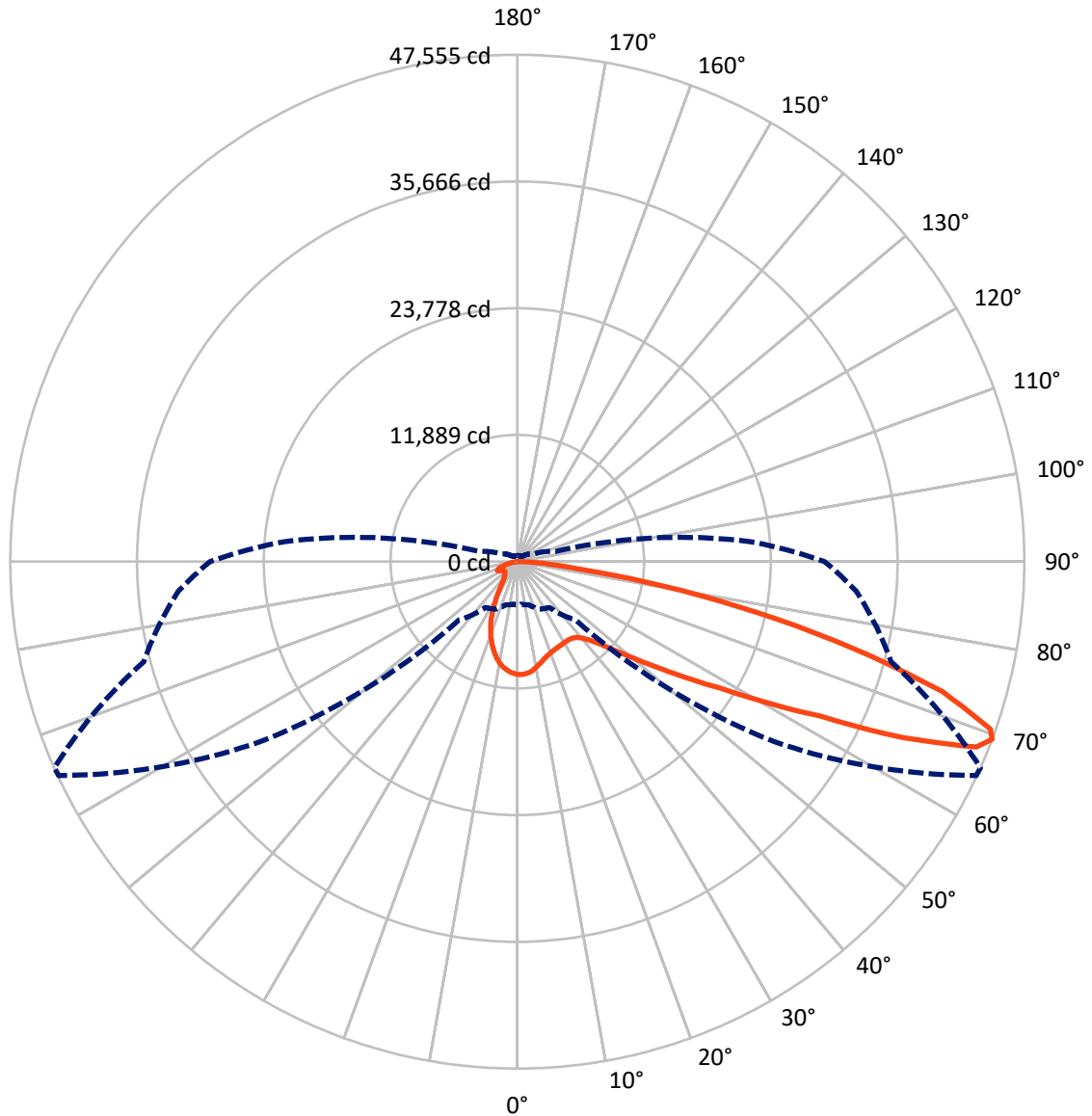
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 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
<b>House Side</b>	Lumens	8625.5	0.0	8625.5
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	37239.5	0.0	37239.5
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	45865.0	0.0	45865.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	919.8	2.0
10°-20°	2181.6	4.8
20°-30°	2969.9	6.5
30°-40°	3991.0	8.7
40°-50°	5959.2	13.0
50°-60°	9479.0	20.7
60°-70°	11658.7	25.4
70°-80°	7585.7	16.5
80°-90°	1120.2	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°	45865.0	100.0
0°-180°	45865.0	100.0

**Coefficient of Utilization**



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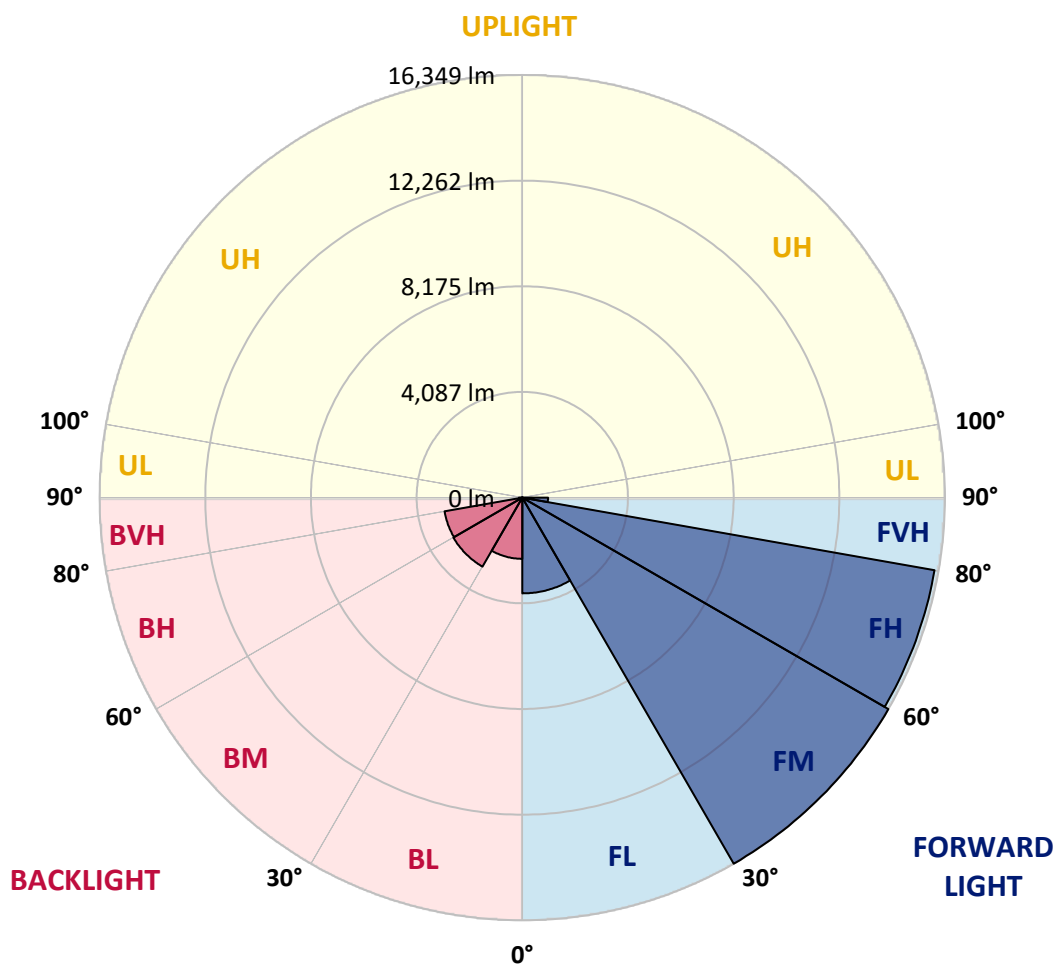
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3703.5	8.1			
FM	(30°-60°)	16349.5	35.6			
FH	(60°-80°)	16190.6	35.3			G5
FVH	(80°-90°)	995.9	2.2			G5
BL	(0°-30°)	2367.7	5.2	B3/2500		
BM	(30°-60°)	3079.7	6.7	B3/5000		
BH	(60°-80°)	3053.8	6.7	B4/5000		G4/5000
BVH	(80°-90°)	124.3	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	10591.5	10591.5	10591.5	10591.5	10591.5	10591.5	10591.5	10591.5	10591.5	10591.5	10591.5
2.5°	10220.7	10261.3	10307.0	10357.8	10454.3	10507.7	10545.8	10589.0	10594.0	10616.9	10599.1
5°	9466.3	9514.6	9583.2	9679.7	9824.4	10050.5	10284.2	10474.7	10497.5	10604.2	10634.7
7.5°	8836.4	8864.4	8920.2	9075.2	9280.9	9532.4	9872.7	10258.8	10314.7	10568.6	10657.5
10°	8323.3	8351.3	8417.3	8577.3	8780.5	9095.5	9468.9	9976.8	10022.6	10459.4	10662.6
12.5°	7939.8	7965.2	8036.3	8193.8	8427.5	8722.1	9133.6	9672.0	9738.1	10314.7	10614.4
15°	7647.7	7696.0	7754.4	7883.9	8130.3	8414.8	8813.6	9392.7	9446.0	10162.3	10581.3
17.5°	7523.3	7546.1	7586.8	7706.1	7886.5	8165.9	8567.2	9174.2	9237.7	10055.6	10573.7
20°	7528.3	7551.2	7558.8	7624.9	7754.4	7995.7	8391.9	9001.5	9077.7	9961.6	10586.4
22.5°	7701.1	7703.6	7675.7	7652.8	7703.6	7904.3	8267.5	8872.0	8960.9	9921.0	10596.6
25°	7967.8	8013.5	7972.8	7866.2	7772.2	7868.7	8219.2	8800.9	8884.7	9862.5	10583.9
27.5°	8399.5	8407.2	8374.1	8229.4	7985.5	7914.4	8198.9	8747.5	8818.6	9819.4	10520.4
30°	8978.6	8955.8	8925.3	8765.3	8381.8	8089.7	8242.1	8699.3	8772.9	9755.9	10444.2
32.5°	9565.4	9636.5	9608.6	9420.6	8922.8	8430.0	8381.8	8694.2	8755.1	9707.6	10360.4
35°	10187.7	10220.7	10352.7	10256.2	9745.7	8981.2	8643.4	8772.9	8821.2	9710.1	10302.0
37.5°	10675.3	10764.2	11074.1	11157.9	10677.9	9710.1	9067.5	8996.4	9016.7	9834.6	10324.8
40°	11264.6	11417.0	11815.7	12158.6	11843.7	10657.5	9788.9	9410.4	9435.8	10134.3	10474.7
42.5°	12011.3	12118.0	12653.9	13118.7	13067.9	11909.7	10662.6	10088.6	10101.3	10731.2	10893.8
45°	12885.1	13037.5	13639.4	14337.9	14457.3	13327.0	11925.0	11114.7	11107.1	11658.3	11676.1
47.5°	14002.6	14096.6	14693.5	15455.5	15938.1	15107.5	13456.5	12587.9	12506.6	13009.5	12864.7
50°	15031.3	15178.6	15630.7	16463.8	17665.2	17192.8	15470.7	14497.9	14307.4	14777.3	14533.5
52.5°	15463.1	15618.0	15999.0	17032.8	19146.0	19890.2	18028.4	16776.2	16458.7	16819.4	16730.5
55°	14713.8	14914.5	15270.1	16527.3	19796.2	23001.6	21477.6	19410.1	19179.0	19024.1	19049.5
57.5°	12699.6	12890.1	13370.2	14757.0	19019.0	25259.6	26402.6	22795.9	22300.6	21586.9	21708.8
60°	9667.0	9786.3	10035.3	11571.9	16715.3	25846.3	31995.5	27075.6	26760.7	24139.5	24225.8
62.5°	6865.4	7000.0	7172.8	7939.8	12237.4	24192.8	36374.3	33052.1	31926.9	26783.5	26699.7
65°	5575.1	5483.7	5692.0	6050.1	7180.4	18749.8	37359.8	41347.5	39798.1	30265.8	29102.5
67.5°	4584.6	4488.1	4693.8	5331.3	5460.8	10883.6	33809.0	46732.1	46422.3	34052.8	31543.4
69°	4058.8	4008.0	4188.3	4914.8	5242.4	7729.0	29453.0	47481.4	47555.1	36285.4	31919.3
70°	3657.5	3677.8	3853.1	4703.9	5143.4	6372.7	25173.2	46447.7	47072.5	37400.5	31512.9
72.5°	2692.3	2735.5	2979.3	3896.3	5049.4	5407.5	14980.5	40570.3	41675.2	37466.5	28828.2
75°	1882.1	1861.8	2077.7	2933.6	4770.0	5359.2	8798.3	31375.7	32627.9	32384.1	24223.3
77.5°	1231.9	1264.9	1437.6	2072.6	4013.1	5318.6	5735.2	22259.9	23072.7	21658.0	14327.7
80°	868.7	866.1	962.6	1414.7	2976.8	5110.3	4696.3	14030.6	13824.8	8511.3	4249.3
82.5°	497.8	533.4	645.1	995.7	1991.3	4498.2	4320.4	6710.5	6126.3	2425.6	1435.1
85°	276.9	289.6	383.5	602.0	1163.3	3388.3	3771.8	3053.0	2880.3	1013.4	617.2
87.5°	88.9	96.5	160.0	304.8	528.3	1600.2	2136.1	1409.7	1300.4	365.7	248.9
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°	10591.5	10591.5	10591.5	10591.5	10591.5	10591.5	10591.5	10591.5	10591.5	10591.5	10591.5
2.5°	10606.7	10637.2	10555.9	10477.2	10406.1	10307.0	10218.1	10144.5	10093.7	10086.1	10060.7
5°	10642.3	10644.8	10489.9	10281.6	10078.4	9854.9	9623.8	9458.7	9303.8	9217.4	9174.2
7.5°	10667.7	10644.8	10365.4	10027.6	9636.5	9230.1	8823.7	8498.6	8247.1	8148.1	8186.2
10°	10657.5	10586.4	10177.5	9636.5	9067.5	8460.5	7876.3	7419.1	7000.0	6784.1	6789.2
12.5°	10601.7	10484.8	9898.1	9197.1	8361.4	7548.7	6654.6	6037.4	5552.3	5265.3	5176.4
15°	10553.4	10350.2	9570.5	8600.2	7561.4	6400.6	5311.0	4549.0	4142.6	3916.6	3914.0
17.5°	10502.6	10220.7	9212.3	7967.8	6641.9	5148.4	4005.5	3423.8	3233.3	3256.2	3218.1
20°	10449.3	10068.3	8839.0	7264.2	5521.8	3840.4	2999.7	2763.4	2816.8	2920.9	2936.2
22.5°	10388.3	9905.7	8437.6	6489.5	4343.3	2890.4	2433.3	2397.7	2534.8	2697.4	2720.3
25°	10294.3	9702.5	7932.2	5679.3	3350.2	2329.1	2131.0	2156.4	2291.0	2428.2	2443.4
27.5°	10162.3	9451.1	7421.7	4668.4	2517.1	1998.9	1948.1	1981.1	2047.2	2131.0	2151.3
30°	9984.5	9166.6	6834.9	3794.7	2016.7	1833.8	1813.5	1831.3	1869.4	1904.9	1915.1
32.5°	9806.7	8892.3	6243.1	2905.7	1798.3	1724.6	1704.3	1704.3	1704.3	1709.4	1711.9
35°	9641.6	8633.2	5608.2	2263.1	1684.0	1638.3	1610.3	1579.8	1574.8	1557.0	1557.0
37.5°	9550.1	8397.0	4932.5	1894.8	1600.2	1567.1	1529.0	1478.2	1450.3	1452.8	1447.8
40°	9567.9	8242.1	4317.9	1686.5	1531.6	1496.0	1437.6	1379.2	1361.4	1361.4	1356.3
42.5°	9768.6	8191.3	3728.6	1577.3	1465.5	1424.9	1351.2	1297.9	1287.7	1285.2	1290.3
45°	10230.8	8315.7	3200.3	1506.2	1409.7	1348.7	1275.0	1226.8	1216.6	1216.6	1214.1
47.5°	11132.5	8719.6	2821.9	1460.5	1369.0	1290.3	1214.1	1165.8	1148.0	1143.0	1143.0
50°	12534.5	9595.9	2539.9	1419.8	1318.2	1236.9	1158.2	1102.3	1074.4	1071.8	1069.3
52.5°	14482.7	10962.3	2430.7	1389.3	1262.3	1181.1	1094.7	1041.4	1005.8	998.2	993.1
55°	16761.0	12869.8	2580.6	1366.5	1203.9	1117.6	1028.7	972.8	939.8	924.5	922.0
57.5°	19400.0	15160.8	3149.5	1336.0	1150.6	1049.0	962.6	906.8	871.2	853.4	848.3
60°	21769.7	17515.3	4142.6	1318.2	1104.9	975.3	886.4	835.6	802.6	784.8	782.3
62.5°	24373.2	19760.6	5328.8	1366.5	1084.5	904.2	815.3	769.6	741.7	723.9	723.9
65°	27154.4	22008.5	6113.6	1529.0	1115.0	848.3	739.1	701.0	675.6	662.9	660.4
67.5°	29028.8	22785.7	5036.7	1696.7	1191.2	787.4	665.5	635.0	619.7	607.0	607.0
69°	28825.7	21802.7	3715.9	1739.9	1214.1	756.9	624.8	602.0	581.6	576.6	571.5
70°	28183.0	20682.6	3114.0	1711.9	1196.3	729.0	599.4	571.5	553.7	548.6	546.1
72.5°	25102.1	17937.0	2319.0	1488.4	1018.5	632.4	530.8	505.4	490.2	482.6	482.6
75°	20855.4	14660.5	1811.0	1183.6	797.5	533.4	454.6	434.3	421.6	416.5	414.0
77.5°	11688.8	8186.2	1300.4	927.1	604.5	431.8	381.0	363.2	350.5	345.4	345.4
80°	3256.2	2339.3	764.5	612.1	411.5	327.7	302.3	289.6	271.8	259.1	266.7
82.5°	1226.8	1013.4	436.9	368.3	261.6	218.4	210.8	200.7	193.0	175.3	175.3
85°	596.9	492.7	279.4	195.6	144.8	114.3	109.2	104.1	99.1	86.4	88.9
87.5°	205.7	218.4	121.9	71.1	43.2	27.9	22.9	12.7	12.7	12.7	12.7
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)