

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: P452340

Luminaire Tested: **GALN-SA3B-740-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452340
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-740-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17153 lumens
Efficiency: N/A
Efficacy: 141.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

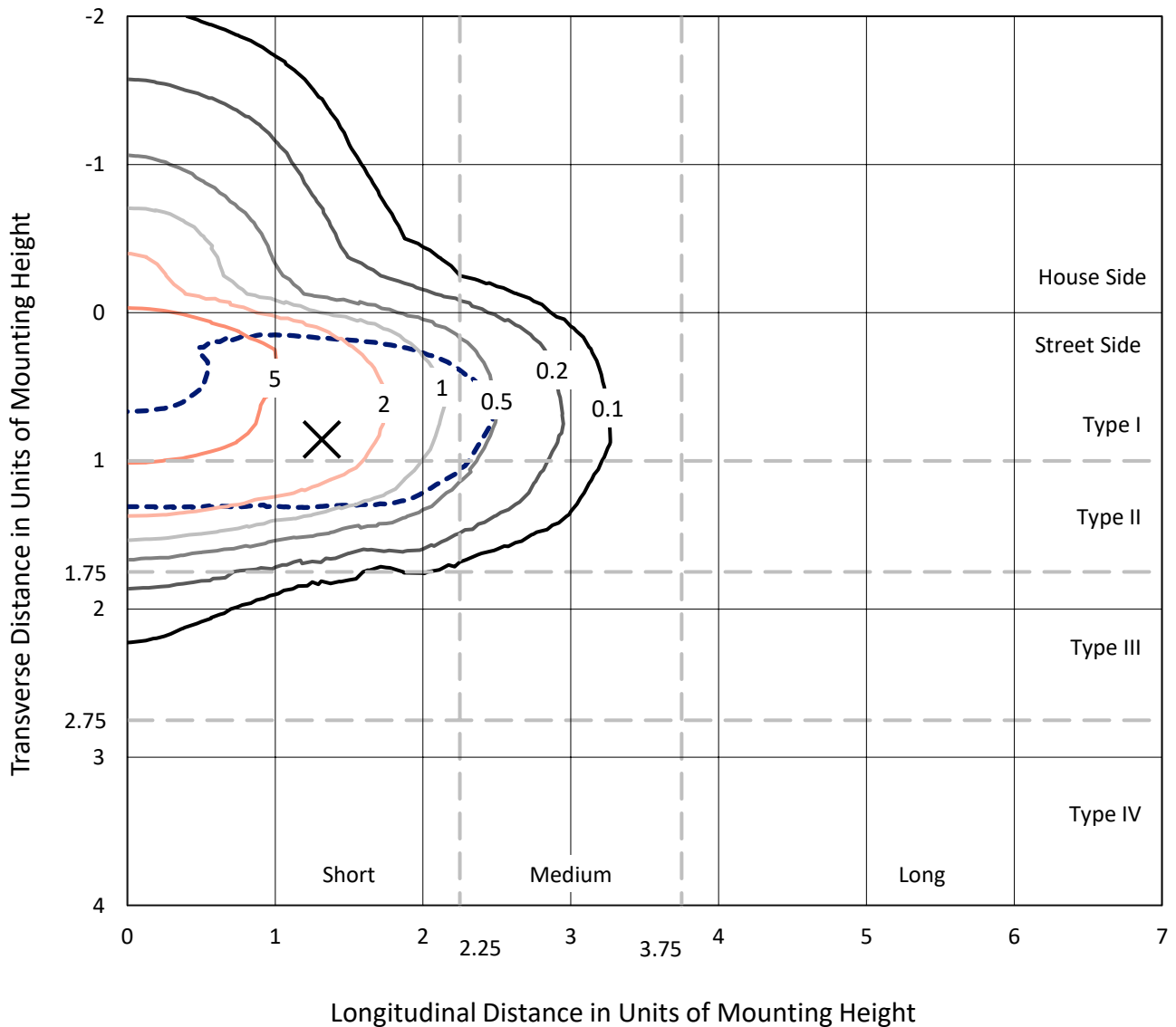
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

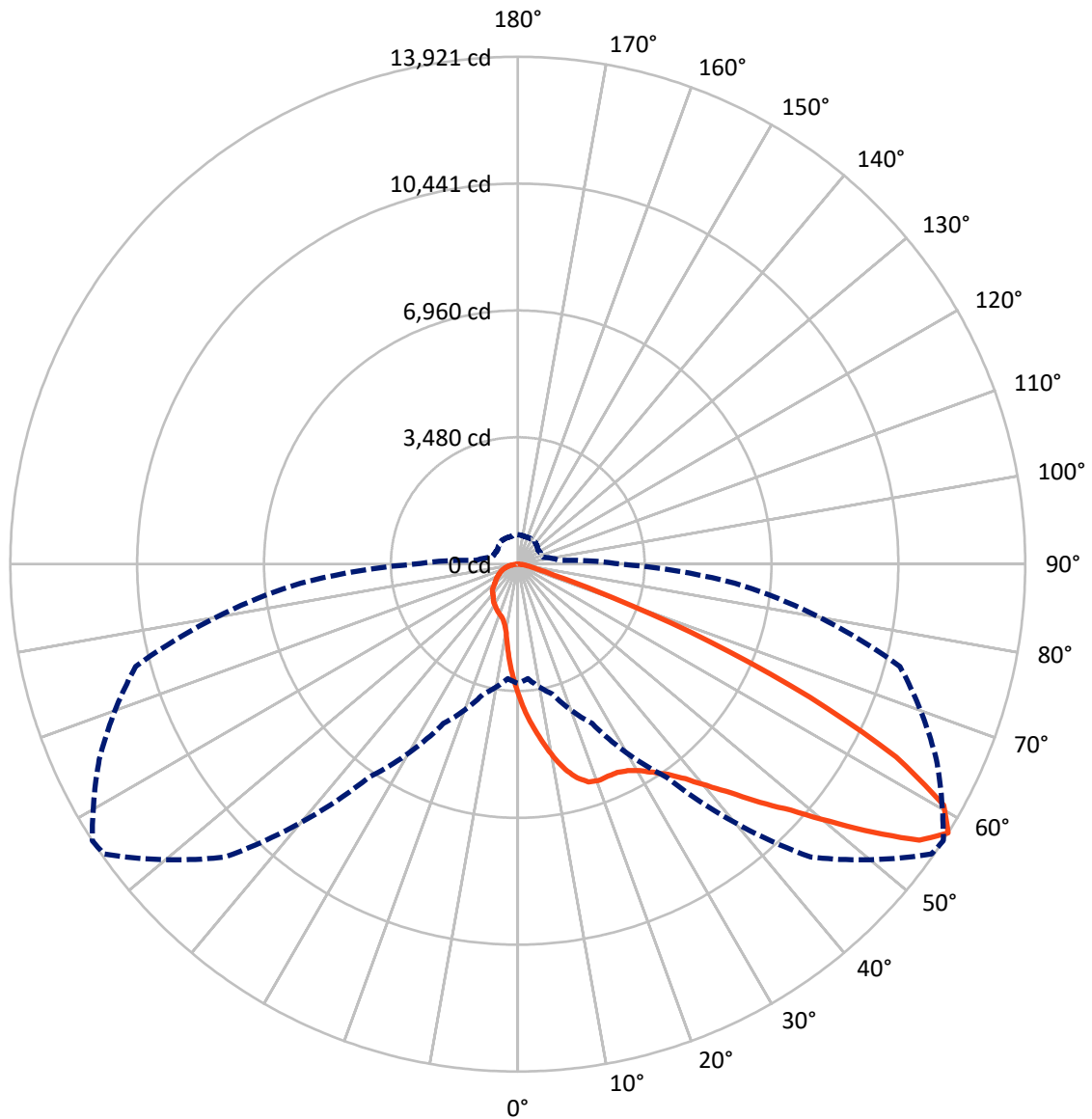
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2608.5	0.0	2608.5
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	14544.5	0.0	14544.5
	% Fixture	84.8	0.0	84.8
Total	Lumens	17153.0	0.0	17153.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.3	2.0
10°-20°	1020.7	6.0
20°-30°	1694.9	9.9
30°-40°	2553.0	14.9
40°-50°	3833.1	22.3
50°-60°	4296.4	25.0
60°-70°	2514.5	14.7
70°-80°	743.8	4.3
80°-90°	150.3	0.9
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°	17153.0	100.0
0°-180°	17153.0	100.0

Coefficient of Utilization



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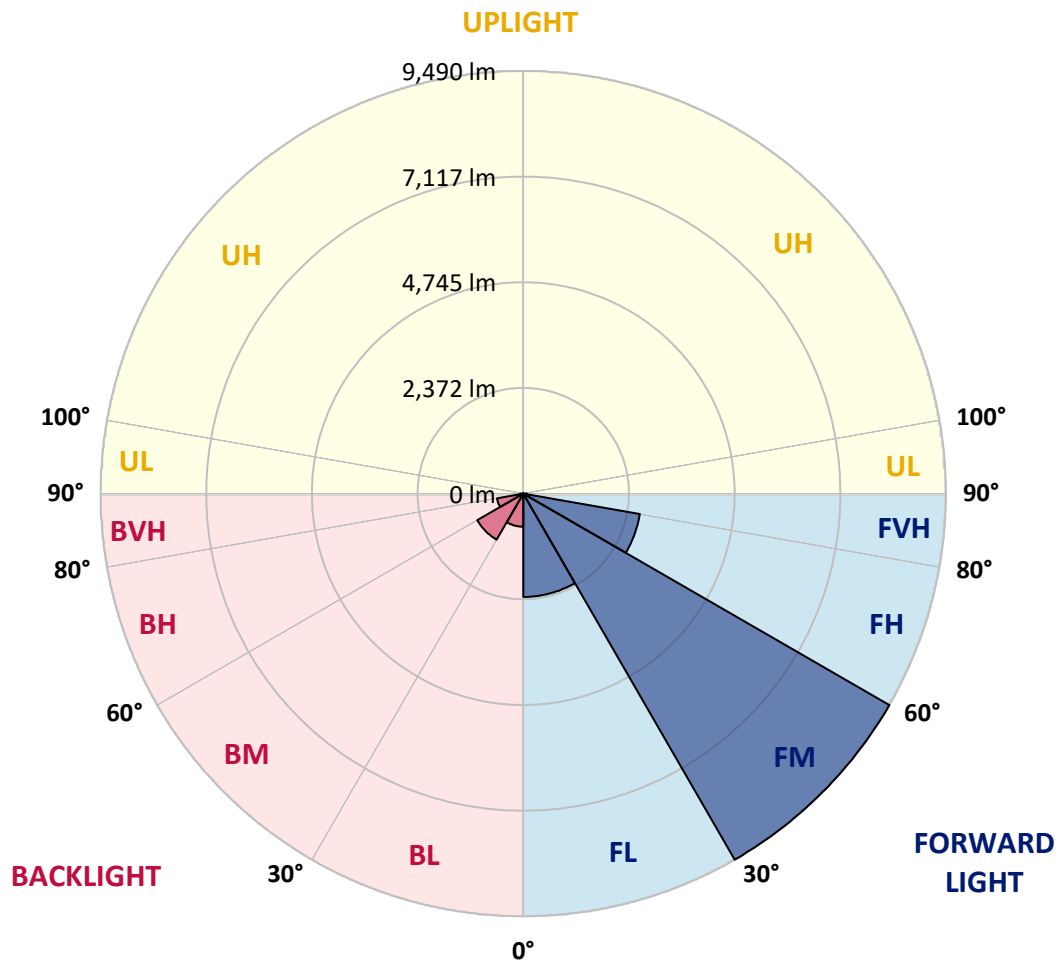
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2318.7	13.5			
FM	(30°-60°)	9489.8	55.3			
FH	(60°-80°)	2658.0	15.5			G2/5000
FVH	(80°-90°)	78.0	0.5			G1/100
BL	(0°-30°)	743.2	4.3	B2/1000		
BM	(30°-60°)	1192.7	7.0	B2/2500		
BH	(60°-80°)	600.2	3.5	B2/1000		G2/1000
BVH	(80°-90°)	72.3	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3603.6	3603.6	3603.6	3603.6	3603.6	3603.6	3603.6	3603.6	3603.6	3603.6	3603.6
2.5°	4477.8	4429.0	4390.5	4356.7	4312.5	4193.3	4074.1	4072.2	3977.3	3830.9	3680.6
5°	5207.4	5141.6	5150.1	5044.9	4939.8	4767.0	4514.4	4501.3	4299.4	4025.2	3746.4
7.5°	5682.5	5683.4	5657.1	5597.0	5483.4	5287.2	5000.8	4936.0	4655.3	4239.3	3821.5
10°	5658.0	5683.4	5727.5	5779.2	5813.9	5717.2	5456.2	5377.3	5012.1	4498.5	3905.0
12.5°	5333.2	5372.6	5435.5	5565.1	5774.5	5934.1	5844.9	5781.0	5425.2	4756.7	3997.1
15°	5130.4	5153.8	5188.6	5275.9	5501.2	5883.4	6114.4	6080.6	5814.9	5048.7	4100.3
17.5°	5068.4	5091.9	5103.1	5156.7	5317.2	5708.8	6220.5	6280.6	6160.4	5317.2	4204.6
20°	5130.4	5141.6	5141.6	5173.6	5299.4	5606.4	6215.8	6336.9	6443.9	5639.3	4302.2
22.5°	5292.8	5297.5	5290.9	5302.2	5396.1	5634.6	6171.6	6321.9	6673.0	5912.5	4378.3
25°	5556.6	5564.2	5521.0	5494.7	5563.2	5758.5	6196.1	6334.1	6852.4	6173.5	4429.0
27.5°	5856.2	5865.6	5813.0	5751.9	5783.9	5911.6	6291.8	6415.8	6986.6	6430.8	4460.9
30°	6223.3	6227.0	6138.8	6065.5	6044.9	6139.7	6455.2	6570.7	7153.8	6734.1	4508.8
32.5°	6598.9	6627.0	6513.4	6410.1	6375.4	6404.5	6696.5	6808.2	7352.8	7059.9	4585.8
35°	7109.6	7114.3	6978.2	6852.4	6737.8	6775.4	7005.4	7086.2	7627.9	7436.4	4694.7
37.5°	7747.2	7790.4	7602.6	7367.9	7227.0	7172.6	7379.1	7467.4	8013.8	7898.4	4859.0
40°	8455.1	8471.1	8310.6	8164.1	7906.8	7749.1	7891.8	7987.6	8489.9	8449.5	5049.6
42.5°	8900.2	8934.9	8947.2	8932.1	8738.7	8473.9	8528.4	8573.5	9053.3	8966.9	5244.9
45°	9050.4	9102.1	9276.7	9646.7	9667.3	9406.3	9279.5	9322.7	9667.3	9488.9	5431.8
47.5°	8801.6	8889.9	9211.9	9970.6	10538.7	10558.4	10176.2	10081.4	10226.9	9921.8	5567.0
50°	8158.4	8177.2	8670.2	9768.7	10947.1	11659.7	11264.5	11087.9	10758.4	10241.9	5659.9
52.5°	7163.2	7184.8	7597.9	8830.7	10695.5	12429.7	12537.7	12222.2	11298.3	10490.8	5721.0
55°	5317.2	5442.1	5896.5	7088.1	9503.0	12357.4	13549.8	13370.5	11950.8	10687.9	5816.7
57.5°	3269.4	3154.8	3693.8	4822.4	7147.2	11364.0	13862.5	13920.7	12669.1	10853.2	5977.3
60°	1504.2	1526.7	1749.2	2487.3	4356.7	8889.9	13056.9	13425.0	13066.3	10847.6	6017.7
62.5°	1036.6	1015.9	959.6	1092.0	1986.8	5622.4	11028.8	11652.2	12270.1	10510.5	5857.1
65°	926.7	906.1	797.2	760.5	912.6	2450.6	8017.6	8804.4	10331.1	9659.8	5457.1
67.5°	865.7	837.5	724.9	653.5	651.6	975.6	4727.6	5674.9	7662.7	8166.9	4728.5
70°	801.9	779.3	667.6	588.7	554.9	613.1	2077.9	2720.1	4975.4	5885.3	3683.5
72.5°	738.0	711.7	611.2	526.7	482.6	459.1	796.2	1035.7	2811.2	3528.5	2258.1
75°	645.1	631.9	546.5	477.0	429.1	370.9	505.1	576.5	1344.6	1620.6	1133.3
77.5°	564.3	550.2	485.4	416.9	382.1	301.4	358.7	391.5	567.1	657.3	511.7
80°	413.1	427.2	409.4	368.1	340.8	236.6	241.3	268.5	337.1	372.8	312.7
82.5°	262.0	288.3	315.5	283.6	258.2	186.8	167.1	177.5	230.0	244.1	139.0
85°	109.9	111.7	183.1	172.8	147.4	110.8	100.5	106.1	123.0	128.6	64.8
87.5°	42.3	41.3	64.8	60.1	46.0	31.9	31.9	35.7	48.8	45.1	20.7
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°	3603.6	3603.6	3603.6	3603.6	3603.6	3603.6	3603.6	3603.6	3603.6	3603.6	3603.6
2.5°	3615.9	3549.2	3416.8	3252.5	3132.3	2997.1	2877.8	2792.4	2760.5	2745.5	2717.3
5°	3613.0	3481.6	3207.4	2920.1	2689.1	2452.5	2252.5	2122.9	2111.7	2025.3	2016.8
7.5°	3614.0	3413.0	2976.4	2553.9	2201.8	1959.6	1794.3	1751.1	1699.5	1686.3	1692.9
10°	3616.8	3325.7	2728.6	2191.5	1850.6	1692.0	1630.0	1613.1	1615.0	1620.6	1621.5
12.5°	3620.5	3241.2	2471.3	1916.4	1653.5	1587.7	1581.2	1596.2	1612.2	1624.4	1627.2
15°	3625.2	3144.5	2220.6	1694.8	1554.9	1549.2	1570.8	1596.2	1618.7	1636.6	1639.4
17.5°	3619.6	3031.8	2010.3	1558.6	1500.4	1527.7	1563.3	1595.3	1615.9	1632.8	1634.7
20°	3606.5	2906.0	1807.5	1462.9	1466.6	1510.8	1549.2	1579.3	1601.8	1610.3	1616.9
22.5°	3555.8	2755.8	1630.9	1388.7	1426.2	1487.3	1533.3	1551.1	1525.8	1507.9	1512.6
25°	3469.4	2560.5	1466.6	1328.6	1389.6	1454.4	1501.4	1458.2	1437.5	1430.0	1433.8
27.5°	3361.4	2346.4	1342.7	1265.7	1342.7	1417.8	1404.7	1397.1	1387.8	1375.5	1378.4
30°	3245.0	2137.0	1237.5	1216.9	1292.0	1335.2	1340.8	1353.0	1342.7	1323.9	1331.4
32.5°	3137.0	1939.8	1157.7	1175.6	1256.3	1249.7	1292.0	1306.1	1258.2	1195.3	1198.1
35°	3045.0	1756.8	1097.6	1135.2	1195.3	1198.1	1240.3	1191.5	1139.9	1109.8	1111.7
37.5°	2975.5	1614.0	1058.2	1100.4	1117.3	1153.0	1130.5	1105.1	1098.6	1077.9	1078.8
40°	2934.2	1489.2	1032.8	1073.2	1070.4	1094.8	1022.5	1047.9	1057.2	1050.7	1051.6
42.5°	2892.9	1400.9	1006.5	1035.7	1034.7	986.8	970.9	992.5	1016.9	1019.7	1017.8
45°	2860.0	1332.4	979.3	978.4	997.2	922.0	917.3	930.5	965.2	982.1	981.2
47.5°	2823.4	1275.1	938.0	911.7	917.3	881.7	874.2	879.8	922.0	949.3	956.8
50°	2777.4	1217.8	886.4	850.7	827.2	844.1	846.0	846.9	889.2	920.2	926.7
52.5°	2740.8	1174.6	827.2	800.9	772.7	810.3	824.4	826.3	851.6	877.0	881.7
55°	2762.4	1150.2	769.0	750.2	724.9	775.6	802.8	806.5	812.2	831.0	833.8
57.5°	2827.1	1155.8	722.0	697.6	678.9	734.3	780.3	783.1	779.3	801.9	805.6
60°	2846.9	1153.0	687.3	639.4	628.2	690.1	747.4	753.0	752.1	785.0	791.5
62.5°	2764.2	1117.3	652.6	590.6	583.1	645.1	701.4	723.9	728.6	775.6	784.0
65°	2569.9	1044.1	606.6	539.0	539.0	597.2	657.3	688.2	701.4	764.3	773.7
67.5°	2313.5	957.7	559.6	494.8	492.9	551.2	610.3	642.2	662.9	748.3	754.0
70°	1920.1	841.3	501.4	446.9	446.9	499.5	553.0	591.5	621.6	718.3	718.3
72.5°	1315.5	699.5	431.0	392.5	393.4	442.2	496.7	539.9	575.6	658.2	660.1
75°	831.9	546.5	354.0	334.3	338.0	384.0	440.4	485.4	556.8	650.7	653.5
77.5°	442.2	384.0	281.7	277.0	281.7	323.9	386.8	448.8	558.7	564.3	554.9
80°	286.4	272.3	222.5	213.1	215.0	261.0	344.6	426.3	448.8	454.4	433.8
82.5°	155.9	172.8	157.7	148.4	148.4	203.7	293.9	339.0	322.1	267.6	255.4
85°	66.7	80.7	81.7	71.4	68.5	125.8	197.2	185.0	171.8	164.3	162.4
87.5°	18.8	26.3	26.3	19.7	15.0	34.7	39.4	11.3	0.0	0.9	1.9
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)