

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: P454167

Luminaire Tested: **GALN-SA5B-730-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454167
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-SA5B-730-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26206 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

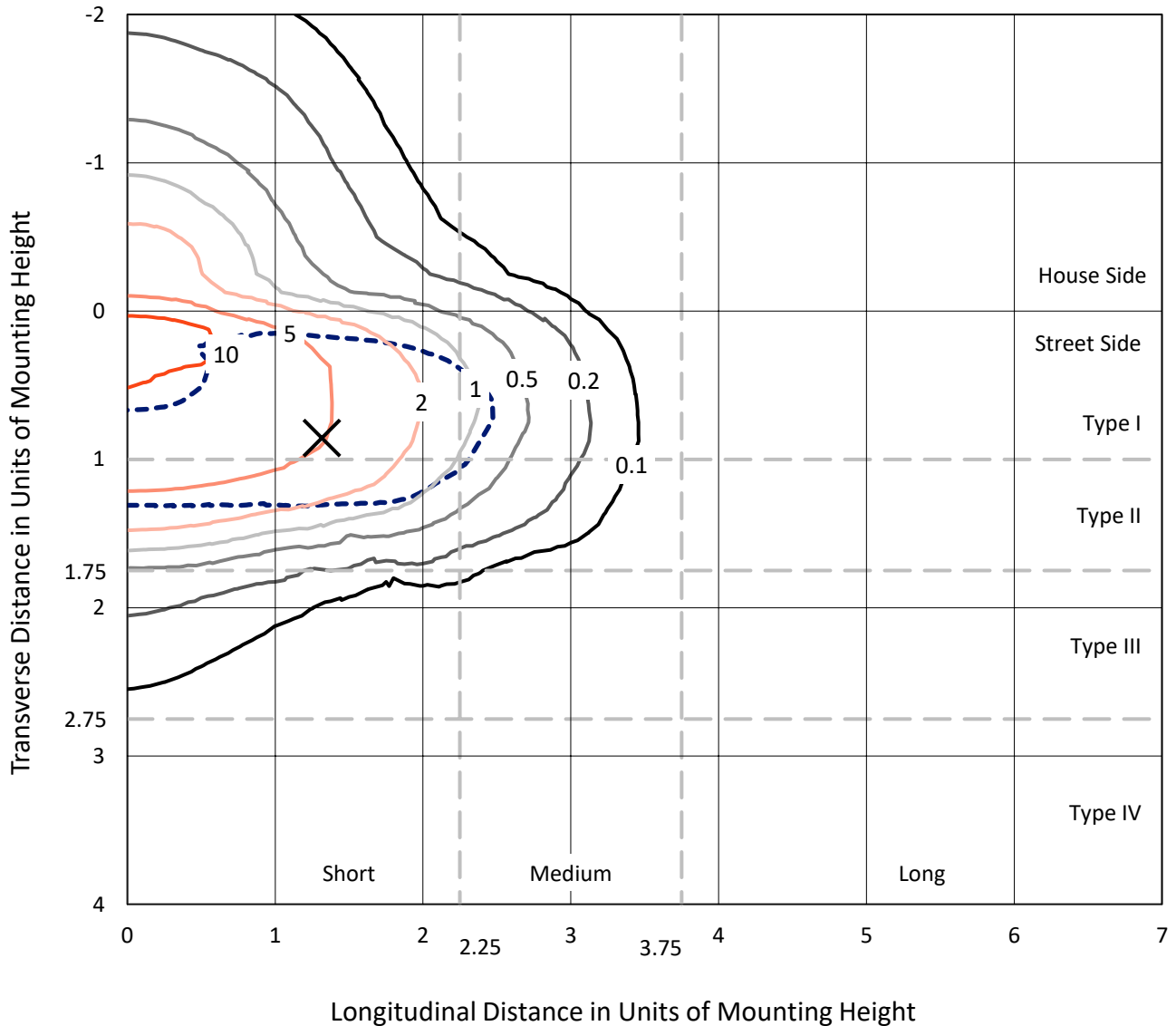
Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

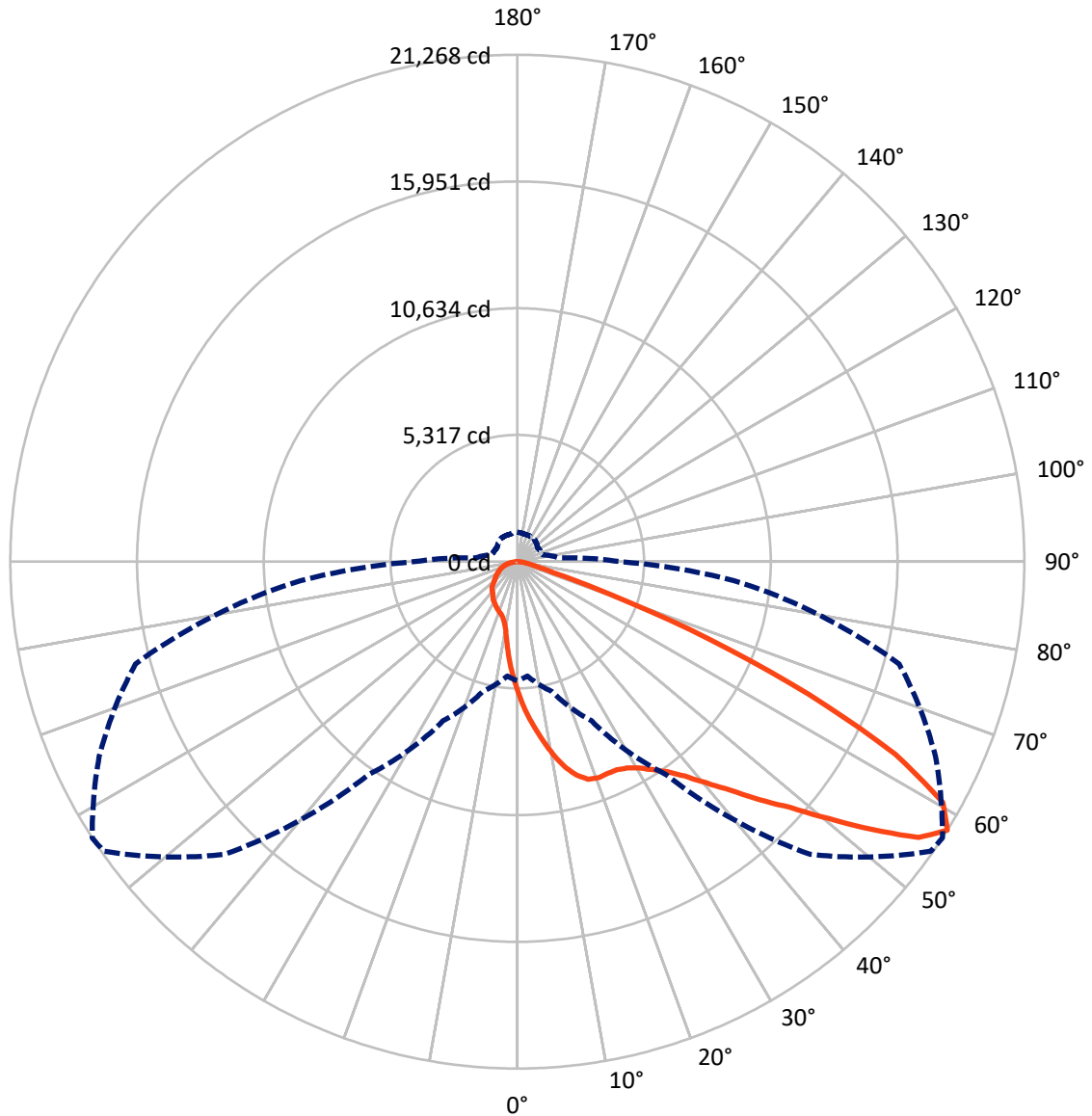
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 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	3985.2	0.0	3985.2
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	22220.8	0.0	22220.8
	% Fixture	84.8	0.0	84.8
Total	Lumens	26206.0	0.0	26206.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	529.1	2.0
10°-20°	1559.4	6.0
20°-30°	2589.4	9.9
30°-40°	3900.4	14.9
40°-50°	5856.1	22.3
50°-60°	6564.0	25.0
60°-70°	3841.6	14.7
70°-80°	1136.3	4.3
80°-90°	229.7	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°	26206.0	100.0
0°-180°	26206.0	100.0

Coefficient of Utilization



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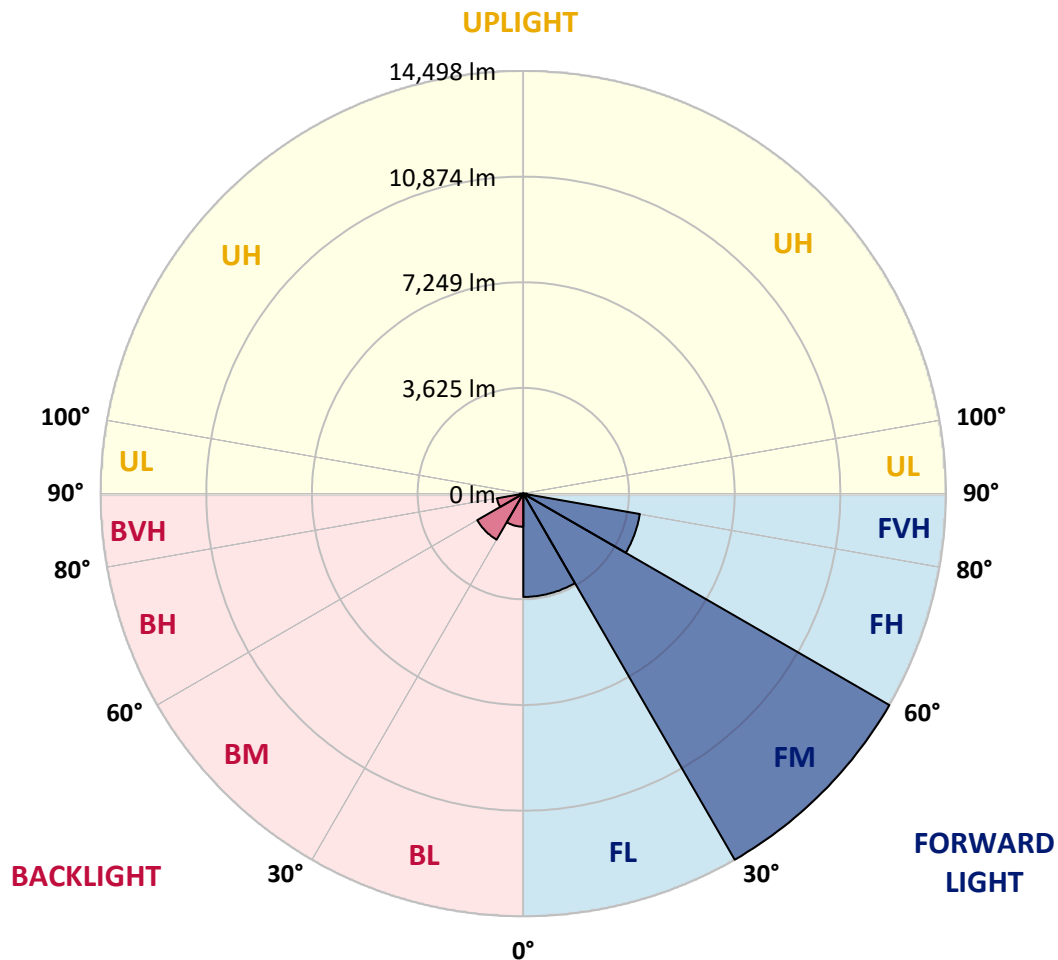
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3542.4	13.5			
FM	(30°-60°)	14498.3	55.3			
FH	(60°-80°)	4060.9	15.5			G2/5000
FVH	(80°-90°)	119.2	0.5			G2/225
BL	(0°-30°)	1135.5	4.3	B3/2500		
BM	(30°-60°)	1822.2	7.0	B2/2500		
BH	(60°-80°)	917.0	3.5	B2/1000		G2/1000
BVH	(80°-90°)	110.5	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	5505.6	5505.6	5505.6	5505.6	5505.6	5505.6	5505.6	5505.6	5505.6	5505.6	5505.6
2.5°	6841.1	6766.5	6707.7	6656.0	6588.6	6406.4	6224.3	6221.4	6076.5	5852.7	5623.2
5°	7955.7	7855.3	7868.2	7707.5	7546.9	7282.9	6897.0	6877.0	6568.5	6149.7	5723.6
7.5°	8681.5	8683.0	8642.8	8551.0	8377.4	8077.6	7640.1	7541.1	7112.2	6476.7	5838.4
10°	8644.2	8683.0	8750.4	8829.3	8882.4	8734.6	8335.8	8215.3	7657.3	6872.7	5966.1
12.5°	8147.9	8208.2	8304.3	8502.2	8822.1	9066.0	8929.7	8832.2	8288.5	7267.1	6106.6
15°	7838.1	7873.9	7927.0	8060.4	8404.7	8988.5	9341.4	9289.8	8883.8	7713.3	6264.4
17.5°	7743.4	7779.3	7796.5	7878.2	8123.5	8721.7	9503.5	9595.3	9411.7	8123.5	6423.7
20°	7838.1	7855.3	7855.3	7904.1	8096.3	8565.4	9496.3	9681.4	9844.9	8615.6	6572.8
22.5°	8086.2	8093.4	8083.4	8100.6	8244.0	8608.4	9428.9	9658.4	10194.9	9033.0	6689.0
25°	8489.3	8500.8	8434.8	8394.6	8499.4	8797.7	9466.2	9677.1	10468.9	9431.8	6766.5
27.5°	8946.9	8961.3	8880.9	8787.7	8836.5	9031.6	9612.5	9801.9	10674.1	9824.8	6815.3
30°	9507.8	9513.6	9378.7	9266.8	9235.3	9380.1	9862.1	10038.6	10929.4	10288.2	6888.4
32.5°	10081.6	10124.6	9951.1	9793.3	9740.2	9784.7	10230.8	10401.5	11233.5	10785.9	7006.1
35°	10862.0	10869.1	10661.1	10468.9	10293.9	10351.3	10702.7	10826.1	11653.8	11361.2	7172.5
37.5°	11836.0	11902.0	11615.1	11256.5	11041.3	10958.1	11273.7	11408.5	12243.4	12066.9	7423.5
40°	12917.6	12942.0	12696.7	12472.9	12079.9	11838.9	12056.9	12203.2	12970.7	12909.0	7714.7
42.5°	13597.6	13650.6	13669.3	13646.3	13350.8	12946.3	13029.5	13098.3	13831.4	13699.4	8013.1
45°	13827.1	13906.0	14172.8	14738.0	14769.5	14370.7	14177.1	14243.1	14769.5	14497.0	8298.5
47.5°	13446.9	13581.8	14073.8	15232.9	16100.7	16130.9	15547.0	15402.1	15624.5	15158.3	8505.1
50°	12464.3	12493.0	13246.1	14924.5	16724.7	17813.5	17209.6	16939.9	16436.4	15647.4	8647.1
52.5°	10943.7	10976.7	11607.9	13491.4	16340.3	18989.8	19154.8	18672.8	17261.2	16027.6	8740.4
55°	8123.5	8314.3	9008.6	10829.0	14518.5	18879.4	20701.2	20427.2	18258.2	16328.8	8886.7
57.5°	4994.9	4819.9	5643.3	7367.6	10919.4	17361.7	21178.8	21267.8	19355.6	16581.3	9132.0
60°	2298.1	2332.5	2672.5	3800.0	6656.0	13581.8	19948.0	20510.4	19962.4	16572.7	9193.7
62.5°	1583.7	1552.1	1466.1	1668.3	3035.4	8589.7	16849.5	17802.0	18745.9	16057.7	8948.4
65°	1415.8	1384.3	1217.9	1161.9	1394.3	3744.0	12249.1	13451.2	15783.7	14758.1	8337.3
67.5°	1322.6	1279.6	1107.4	998.4	995.5	1490.4	7222.7	8670.1	11706.9	12477.2	7224.1
70°	1225.1	1190.6	1019.9	899.4	847.8	936.7	3174.5	4155.7	7601.4	8991.4	5627.5
72.5°	1127.5	1087.3	933.9	804.8	737.3	701.5	1216.4	1582.2	4294.9	5390.8	3450.0
75°	985.5	965.4	834.9	728.7	655.6	566.6	771.8	880.8	2054.2	2475.9	1731.4
77.5°	862.1	840.6	741.6	636.9	583.8	460.5	548.0	598.2	866.4	1004.1	781.8
80°	631.2	652.7	625.4	562.3	520.7	361.5	368.7	410.3	515.0	569.5	477.7
82.5°	400.2	440.4	482.0	433.2	394.5	285.5	255.3	271.1	351.5	373.0	212.3
85°	167.8	170.7	279.7	263.9	225.2	169.3	153.5	162.1	187.9	196.5	99.0
87.5°	64.6	63.1	99.0	91.8	70.3	48.8	48.8	54.5	74.6	68.9	31.6
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°	5505.6	5505.6	5505.6	5505.6	5505.6	5505.6	5505.6	5505.6	5505.6	5505.6	5505.6
2.5°	5524.2	5422.4	5220.1	4969.1	4785.5	4578.9	4396.7	4266.2	4217.4	4194.5	4151.4
5°	5519.9	5319.1	4900.2	4461.3	4108.4	3746.9	3441.3	3243.4	3226.2	3094.2	3081.3
7.5°	5521.4	5214.4	4547.3	3901.8	3363.9	2993.8	2741.3	2675.3	2596.4	2576.3	2586.4
10°	5525.7	5081.0	4168.6	3348.1	2827.4	2585.0	2490.3	2464.5	2467.3	2475.9	2477.4
12.5°	5531.4	4951.9	3775.6	2927.8	2526.1	2425.7	2415.7	2438.6	2463.0	2481.7	2486.0
15°	5538.6	4804.1	3392.6	2589.3	2375.5	2366.9	2399.9	2438.6	2473.1	2500.3	2504.6
17.5°	5530.0	4632.0	3071.2	2381.3	2292.3	2333.9	2388.4	2437.2	2468.8	2494.6	2497.5
20°	5509.9	4439.8	2761.4	2234.9	2240.7	2308.1	2366.9	2412.8	2447.2	2460.2	2470.2
22.5°	5432.4	4210.2	2491.7	2121.6	2179.0	2272.2	2342.5	2369.8	2331.0	2303.8	2311.0
25°	5300.4	3911.9	2240.7	2029.8	2123.0	2222.0	2293.8	2227.8	2196.2	2184.7	2190.5
27.5°	5135.5	3584.8	2051.3	1933.7	2051.3	2166.1	2146.0	2134.5	2120.2	2101.5	2105.8
30°	4957.6	3264.9	1890.7	1859.1	1973.9	2039.8	2048.5	2067.1	2051.3	2022.6	2034.1
32.5°	4792.6	2963.7	1768.7	1796.0	1919.4	1909.3	1973.9	1995.4	1922.2	1826.1	1830.4
35°	4652.1	2683.9	1676.9	1734.3	1826.1	1830.4	1895.0	1820.4	1741.5	1695.6	1698.4
37.5°	4545.9	2465.9	1616.7	1681.2	1707.0	1761.6	1727.1	1688.4	1678.4	1646.8	1648.2
40°	4482.8	2275.1	1577.9	1639.6	1635.3	1672.6	1562.2	1600.9	1615.2	1605.2	1606.6
42.5°	4419.7	2140.3	1537.8	1582.2	1580.8	1507.7	1483.3	1516.3	1553.6	1557.9	1555.0
45°	4369.5	2035.5	1496.2	1494.7	1523.4	1408.7	1401.5	1421.6	1474.7	1500.5	1499.0
47.5°	4313.5	1948.0	1433.1	1392.9	1401.5	1347.0	1335.5	1344.1	1408.7	1450.3	1461.7
50°	4243.2	1860.5	1354.2	1299.6	1263.8	1289.6	1292.5	1293.9	1358.5	1405.8	1415.8
52.5°	4187.3	1794.5	1263.8	1223.6	1180.6	1238.0	1259.5	1262.4	1301.1	1339.8	1347.0
55°	4220.3	1757.3	1174.8	1146.2	1107.4	1184.9	1226.5	1232.2	1240.8	1269.5	1273.8
57.5°	4319.3	1765.9	1103.1	1065.8	1037.1	1121.8	1192.1	1196.4	1190.6	1225.1	1230.8
60°	4349.4	1761.6	1050.0	976.9	959.7	1054.4	1141.9	1150.5	1149.0	1199.2	1209.3
62.5°	4223.1	1707.0	997.0	902.3	890.8	985.5	1071.6	1106.0	1113.2	1184.9	1197.8
65°	3926.2	1595.2	926.7	823.4	823.4	912.3	1004.1	1051.5	1071.6	1167.7	1182.0
67.5°	3534.6	1463.2	855.0	756.0	753.1	842.0	932.4	981.2	1012.8	1143.3	1151.9
70°	2933.5	1285.3	766.0	682.8	682.8	763.1	844.9	903.7	949.6	1097.4	1097.4
72.5°	2009.7	1068.7	658.4	599.6	601.1	675.6	758.8	824.8	879.3	1005.6	1008.4
75°	1271.0	834.9	540.8	510.7	516.4	586.7	672.8	741.6	850.7	994.1	998.4
77.5°	675.6	586.7	430.3	423.2	430.3	494.9	591.0	685.7	853.5	862.1	847.8
80°	437.5	416.0	340.0	325.6	328.5	398.8	526.5	651.3	685.7	694.3	662.7
82.5°	238.1	263.9	241.0	226.6	226.6	311.3	449.0	517.9	492.0	408.8	390.2
85°	101.8	123.4	124.8	109.0	104.7	192.2	301.2	282.6	262.5	251.0	248.2
87.5°	28.7	40.2	40.2	30.1	23.0	53.1	60.2	17.2	0.0	1.4	2.9
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)