

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: P450919

Luminaire Tested: **GALN-SA1D-730-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450919
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-SA1D-730-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7199 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

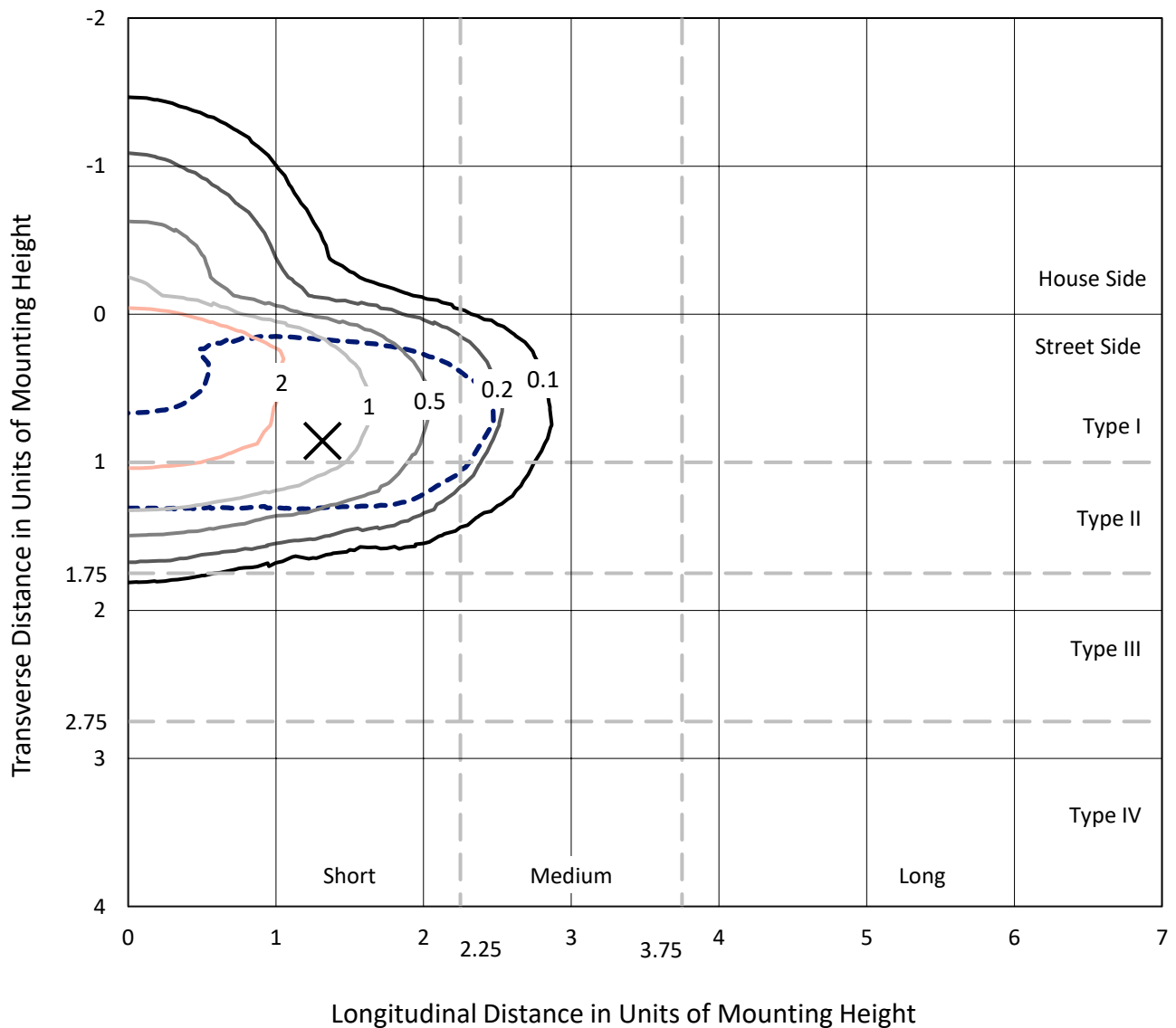
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P450919
 CATALOG NUMBER: GALN-SA1D-730-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

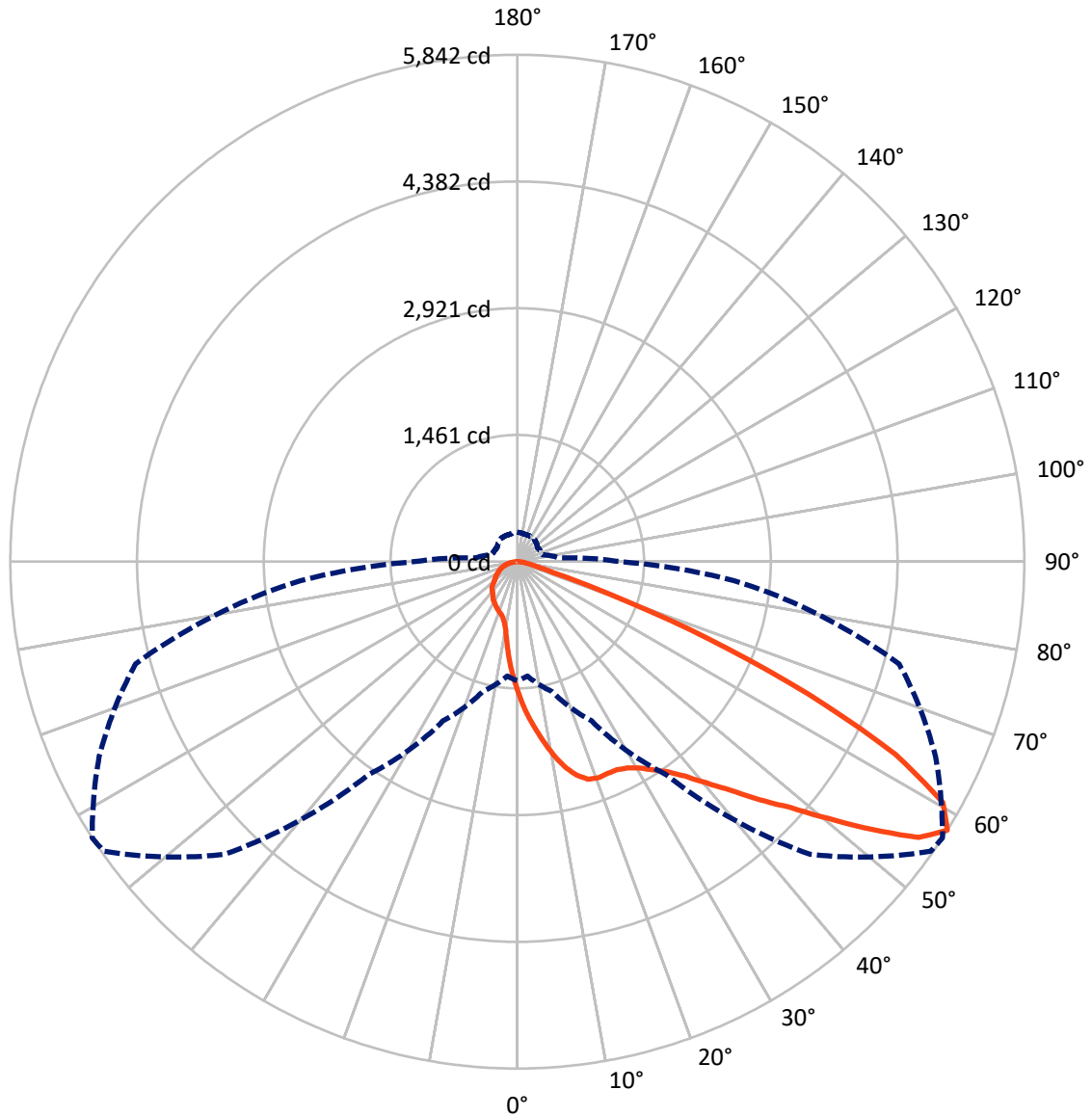
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type II - Short - N/A

REPORT NUMBER: P450919
CATALOG NUMBER: GALN-SA1D-730-U-AFL

Luminous Intensity Polar Plot



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

REPORT NUMBER: P450919

CATALOG NUMBER: GALN-SA1D-730-U-AFL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1094.8	0.0	1094.8
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	6104.2	0.0	6104.2
	% Fixture	84.8	0.0	84.8
Total	Lumens	7199.0	0.0	7199.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.4	2.0
10°-20°	428.4	6.0
20°-30°	711.3	9.9
30°-40°	1071.5	14.9
40°-50°	1608.7	22.3
50°-60°	1803.2	25.0
60°-70°	1055.3	14.7
70°-80°	312.2	4.3
80°-90°	63.1	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°	7199.0	100.0
0°-180°	7199.0	100.0

Coefficient of Utilization



REPORT NUMBER: P450919

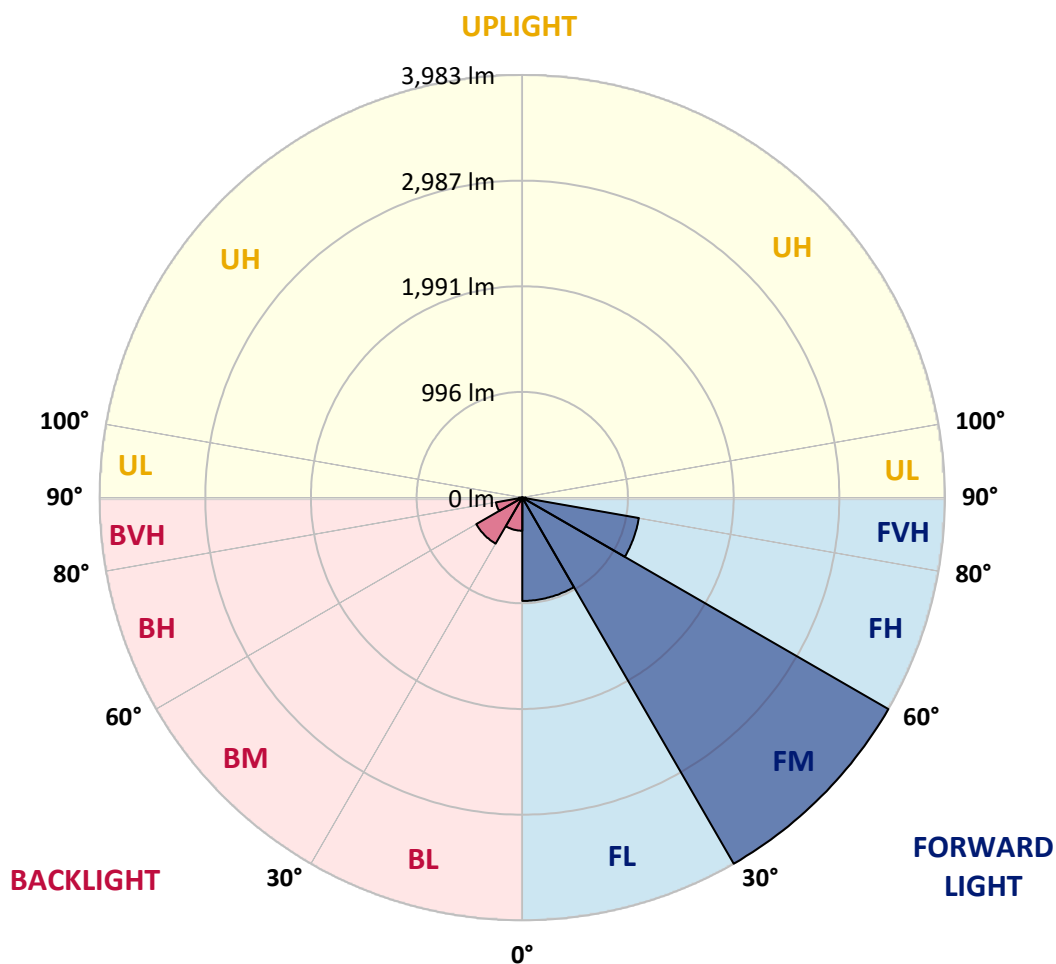
CATALOG NUMBER: GALN-SA1D-730-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	973.1	13.5			
FM	(30°-60°)	3982.8	55.3			
FH	(60°-80°)	1115.6	15.5			G1/1800
FVH	(80°-90°)	32.7	0.5			G1/100
BL	(0°-30°)	311.9	4.3	B1/500		
BM	(30°-60°)	500.6	7.0	B1/1000		
BH	(60°-80°)	251.9	3.5	B1/500		G1/500
BVH	(80°-90°)	30.4	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





REPORT NUMBER: P450919

CATALOG NUMBER: GALN-SA1D-730-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1512.4	1512.4	1512.4	1512.4	1512.4	1512.4	1512.4	1512.4	1512.4	1512.4	1512.4
2.5°	1879.3	1858.8	1842.7	1828.5	1809.9	1759.9	1709.9	1709.1	1669.3	1607.8	1544.7
5°	2185.5	2157.9	2161.5	2117.3	2073.2	2000.7	1894.7	1889.2	1804.4	1689.4	1572.3
7.5°	2384.9	2385.3	2374.3	2349.0	2301.3	2219.0	2098.8	2071.6	1953.8	1779.2	1603.9
10°	2374.6	2385.3	2403.8	2425.5	2440.1	2399.5	2289.9	2256.8	2103.5	1888.0	1638.9
12.5°	2238.3	2254.8	2281.3	2335.6	2423.5	2490.5	2453.1	2426.3	2276.9	1996.3	1677.5
15°	2153.2	2163.0	2177.6	2214.3	2308.8	2469.2	2566.2	2552.0	2440.5	2118.9	1720.9
17.5°	2127.2	2137.0	2141.8	2164.2	2231.6	2395.9	2610.7	2635.9	2585.5	2231.6	1764.6
20°	2153.2	2157.9	2157.9	2171.3	2224.1	2353.0	2608.7	2659.6	2704.5	2366.8	1805.6
22.5°	2221.4	2223.3	2220.6	2225.3	2264.7	2364.8	2590.2	2653.3	2800.6	2481.4	1837.5
25°	2332.1	2335.2	2317.1	2306.1	2334.8	2416.8	2600.4	2658.4	2875.9	2591.0	1858.8
27.5°	2457.8	2461.7	2439.7	2414.1	2427.5	2481.0	2640.6	2692.7	2932.2	2699.0	1872.2
30°	2611.9	2613.4	2576.4	2545.7	2537.0	2576.8	2709.2	2757.7	3002.4	2826.2	1892.3
32.5°	2769.5	2781.3	2733.6	2690.3	2675.7	2687.9	2810.5	2857.4	3085.9	2963.0	1924.6
35°	2983.9	2985.8	2928.7	2875.9	2827.8	2843.6	2940.1	2974.0	3201.4	3121.0	1970.3
37.5°	3251.4	3269.6	3190.8	3092.2	3033.1	3010.3	3097.0	3134.0	3363.4	3314.9	2039.3
40°	3548.6	3555.3	3487.9	3426.4	3318.4	3252.2	3312.1	3352.3	3563.1	3546.2	2119.3
42.5°	3735.4	3749.9	3755.1	3748.8	3667.6	3556.5	3579.3	3598.2	3799.6	3763.3	2201.3
45°	3798.4	3820.1	3893.4	4048.6	4057.3	3947.8	3894.6	3912.7	4057.3	3982.4	2279.7
47.5°	3694.0	3731.0	3866.2	4184.6	4423.0	4431.3	4270.9	4231.1	4292.2	4164.1	2336.4
50°	3424.0	3431.9	3638.8	4099.9	4594.4	4893.5	4727.6	4653.5	4515.2	4298.5	2375.4
52.5°	3006.3	3015.4	3188.8	3706.2	4488.8	5216.7	5262.0	5129.6	4741.8	4402.9	2401.0
55°	2231.6	2284.0	2474.7	2974.8	3988.3	5186.3	5686.8	5611.5	5015.7	4485.7	2441.2
57.5°	1372.1	1324.1	1550.3	2023.9	2999.6	4769.4	5818.0	5842.4	5317.1	4555.0	2508.6
60°	631.3	640.8	734.1	1043.9	1828.5	3731.0	5479.9	5634.4	5483.8	4552.7	2525.6
62.5°	435.0	426.4	402.7	458.3	833.8	2359.7	4628.7	4890.4	5149.7	4411.2	2458.2
65°	388.9	380.3	334.6	319.2	383.0	1028.5	3364.9	3695.2	4335.9	4054.2	2290.3
67.5°	363.3	351.5	304.2	274.3	273.5	409.4	1984.1	2381.7	3216.0	3427.6	1984.5
70°	336.5	327.1	280.2	247.1	232.9	257.3	872.1	1141.6	2088.2	2470.0	1545.9
72.5°	309.7	298.7	256.5	221.1	202.6	192.7	334.2	434.7	1179.8	1480.9	947.7
75°	270.7	265.2	229.3	200.2	180.1	155.7	212.0	242.0	564.3	680.2	475.6
77.5°	236.8	230.9	203.7	175.0	160.4	126.5	150.5	164.3	238.0	275.8	214.8
80°	173.4	179.3	171.8	154.5	143.0	99.3	101.3	112.7	141.5	156.4	131.2
82.5°	109.9	121.0	132.4	119.0	108.4	78.4	70.1	74.5	96.5	102.5	58.3
85°	46.1	46.9	76.8	72.5	61.9	46.5	42.2	44.5	51.6	54.0	27.2
87.5°	17.7	17.3	27.2	25.2	19.3	13.4	13.4	15.0	20.5	18.9	8.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P450919
 CATALOG NUMBER: GALN-SA1D-730-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1512.4	1512.4	1512.4	1512.4	1512.4	1512.4	1512.4	1512.4	1512.4	1512.4	1512.4
2.5°	1517.6	1489.6	1434.0	1365.0	1314.6	1257.9	1207.8	1172.0	1158.6	1152.3	1140.4
5°	1516.4	1461.2	1346.1	1225.5	1128.6	1029.3	945.4	891.0	886.3	850.0	846.5
7.5°	1516.8	1432.4	1249.2	1071.9	924.1	822.4	753.1	734.9	713.3	707.7	710.5
10°	1517.9	1395.8	1145.2	919.8	776.7	710.1	684.1	677.0	677.8	680.2	680.6
12.5°	1519.5	1360.3	1037.2	804.3	694.0	666.4	663.6	669.9	676.6	681.7	682.9
15°	1521.5	1319.7	932.0	711.3	652.6	650.2	659.3	669.9	679.4	686.9	688.0
17.5°	1519.1	1272.4	843.7	654.2	629.7	641.1	656.1	669.5	678.2	685.3	686.1
20°	1513.6	1219.6	758.6	614.0	615.5	634.1	650.2	662.8	672.3	675.8	678.6
22.5°	1492.3	1156.6	684.5	582.8	598.6	624.2	643.5	651.0	640.4	632.9	634.8
25°	1456.1	1074.6	615.5	557.6	583.2	610.4	630.1	612.0	603.3	600.2	601.7
27.5°	1410.8	984.8	563.5	531.2	563.5	595.0	589.5	586.4	582.4	577.3	578.5
30°	1361.9	896.9	519.4	510.7	542.2	560.4	562.7	567.8	563.5	555.6	558.8
32.5°	1316.6	814.1	485.9	493.4	527.3	524.5	542.2	548.1	528.0	501.6	502.8
35°	1278.0	737.3	460.7	476.4	501.6	502.8	520.6	500.1	478.4	465.8	466.6
37.5°	1248.8	677.4	444.1	461.8	468.9	483.9	474.5	463.8	461.1	452.4	452.8
40°	1231.5	625.0	433.5	450.4	449.2	459.5	429.1	439.8	443.7	441.0	441.4
42.5°	1214.1	587.9	422.4	434.7	434.3	414.2	407.5	416.5	426.8	428.0	427.2
45°	1200.3	559.2	411.0	410.6	418.5	387.0	385.0	390.5	405.1	412.2	411.8
47.5°	1185.0	535.1	393.7	382.6	385.0	370.0	366.9	369.2	387.0	398.4	401.6
50°	1165.6	511.1	372.0	357.0	347.2	354.3	355.1	355.4	373.2	386.2	388.9
52.5°	1150.3	493.0	347.2	336.1	324.3	340.1	346.0	346.8	357.4	368.1	370.0
55°	1159.3	482.7	322.7	314.9	304.2	325.5	336.9	338.5	340.9	348.7	349.9
57.5°	1186.5	485.1	303.0	292.8	284.9	308.2	327.5	328.7	327.1	336.5	338.1
60°	1194.8	483.9	288.5	268.4	263.6	289.6	313.7	316.0	315.6	329.4	332.2
62.5°	1160.1	468.9	273.9	247.9	244.7	270.7	294.4	303.8	305.8	325.5	329.0
65°	1078.6	438.2	254.6	226.2	226.2	250.6	275.8	288.9	294.4	320.8	324.7
67.5°	971.0	401.9	234.9	207.7	206.9	231.3	256.1	269.5	278.2	314.1	316.4
70°	805.9	353.1	210.4	187.6	187.6	209.6	232.1	248.3	260.9	301.5	301.5
72.5°	552.1	293.6	180.9	164.7	165.1	185.6	208.5	226.6	241.6	276.2	277.0
75°	349.1	229.3	148.6	140.3	141.9	161.2	184.8	203.7	233.7	273.1	274.3
77.5°	185.6	161.2	118.2	116.2	118.2	136.0	162.4	188.4	234.5	236.8	232.9
80°	120.2	114.3	93.4	89.5	90.2	109.6	144.6	178.9	188.4	190.7	182.1
82.5°	65.4	72.5	66.2	62.3	62.3	85.5	123.3	142.3	135.2	112.3	107.2
85°	28.0	33.9	34.3	29.9	28.8	52.8	82.8	77.6	72.1	69.0	68.2
87.5°	7.9	11.0	11.0	8.3	6.3	14.6	16.6	4.7	0.0	0.4	0.8
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)