

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: P450455

Luminaire Tested: **GALN-SA1B-730-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450455
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-SA1B-730-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5295 lumens
Efficiency: N/A
Efficacy: 120.3 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

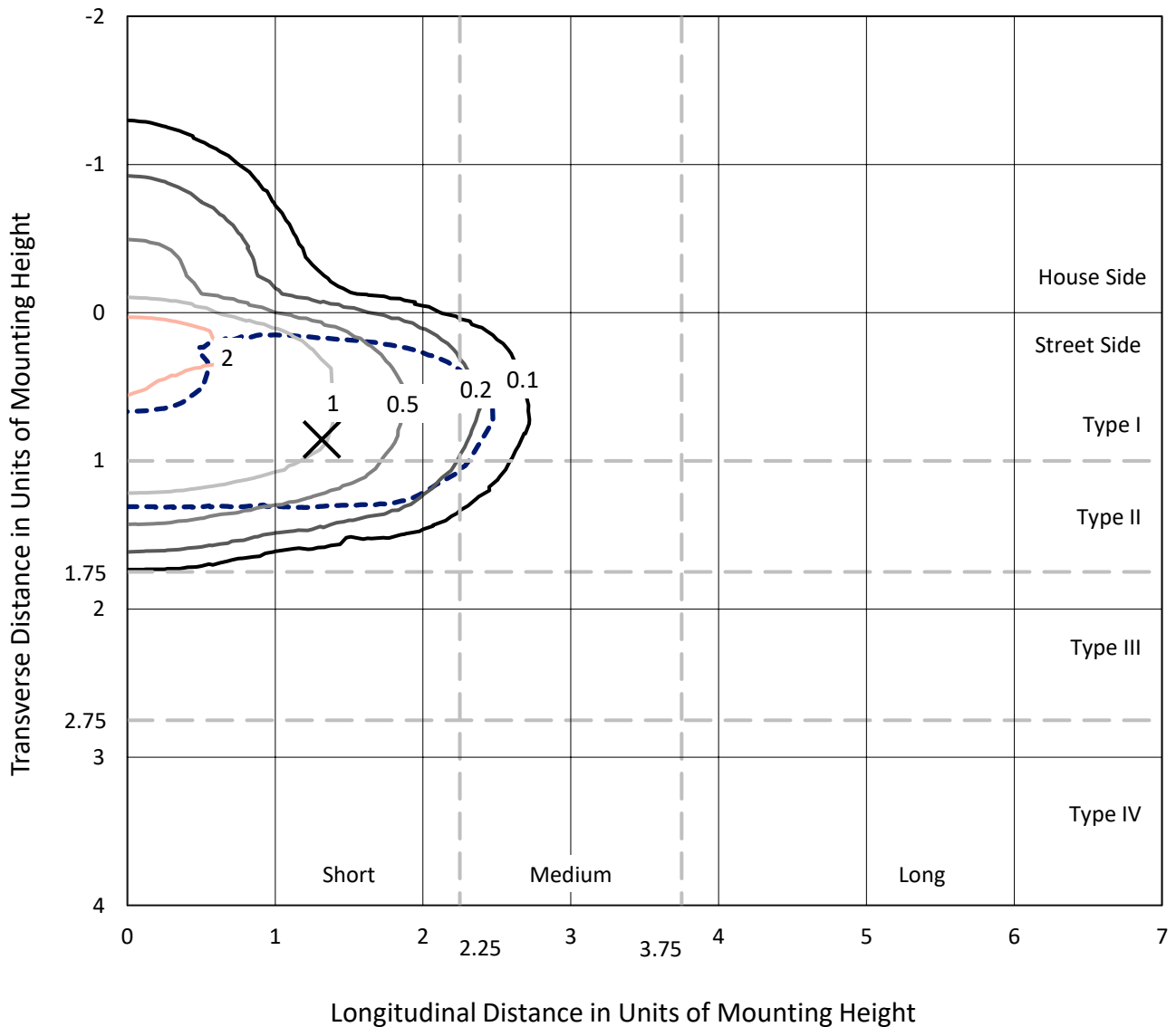
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

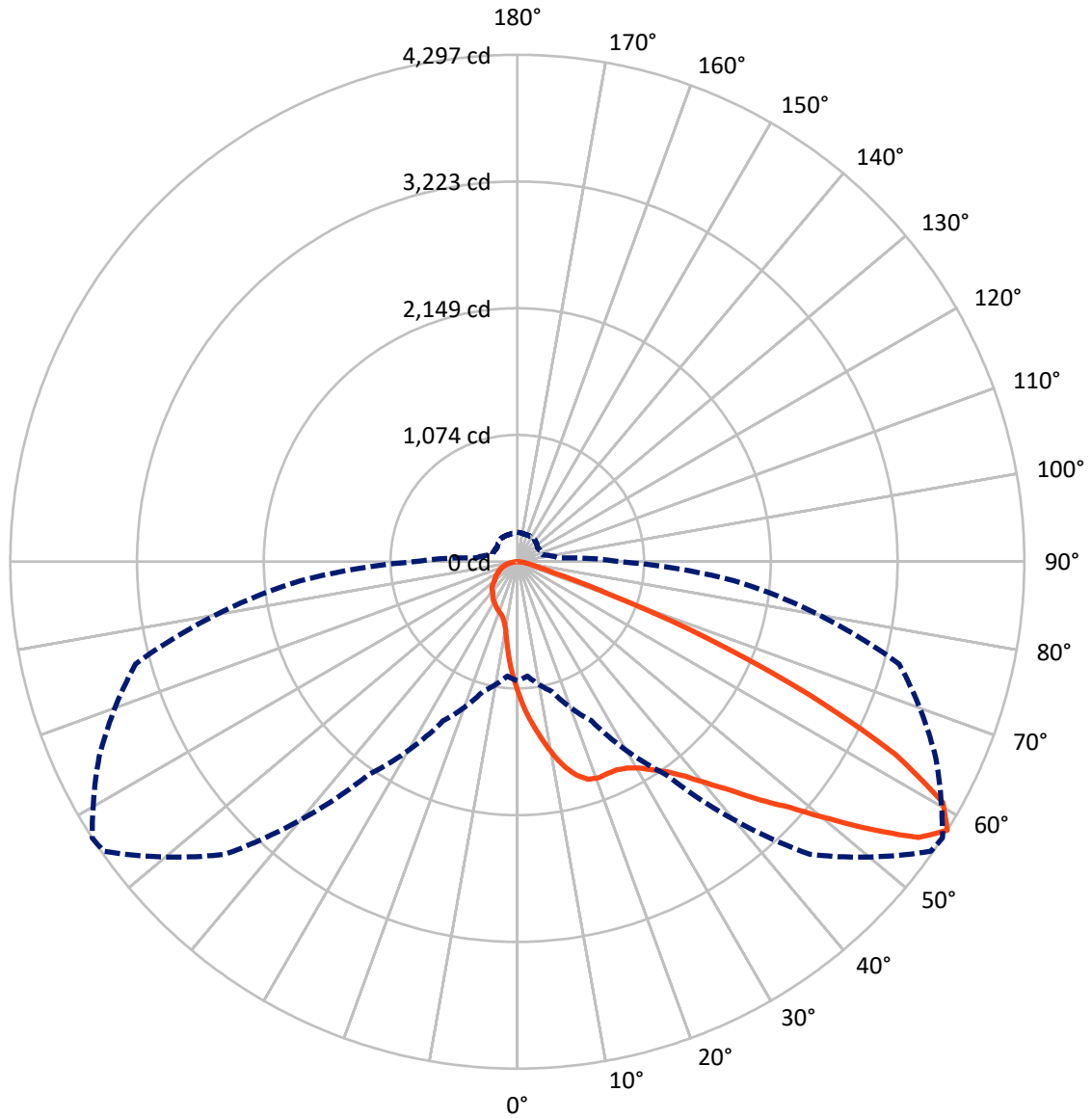
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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	805.2	0.0	805.2
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	4489.8	0.0	4489.8
	% Fixture	84.8	0.0	84.8
Total	Lumens	5295.0	0.0	5295.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.9	2.0
10°-20°	315.1	6.0
20°-30°	523.2	9.9
30°-40°	788.1	14.9
40°-50°	1183.2	22.3
50°-60°	1326.3	25.0
60°-70°	776.2	14.7
70°-80°	229.6	4.3
80°-90°	46.4	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°	5295.0	100.0
0°-180°	5295.0	100.0

Coefficient of Utilization



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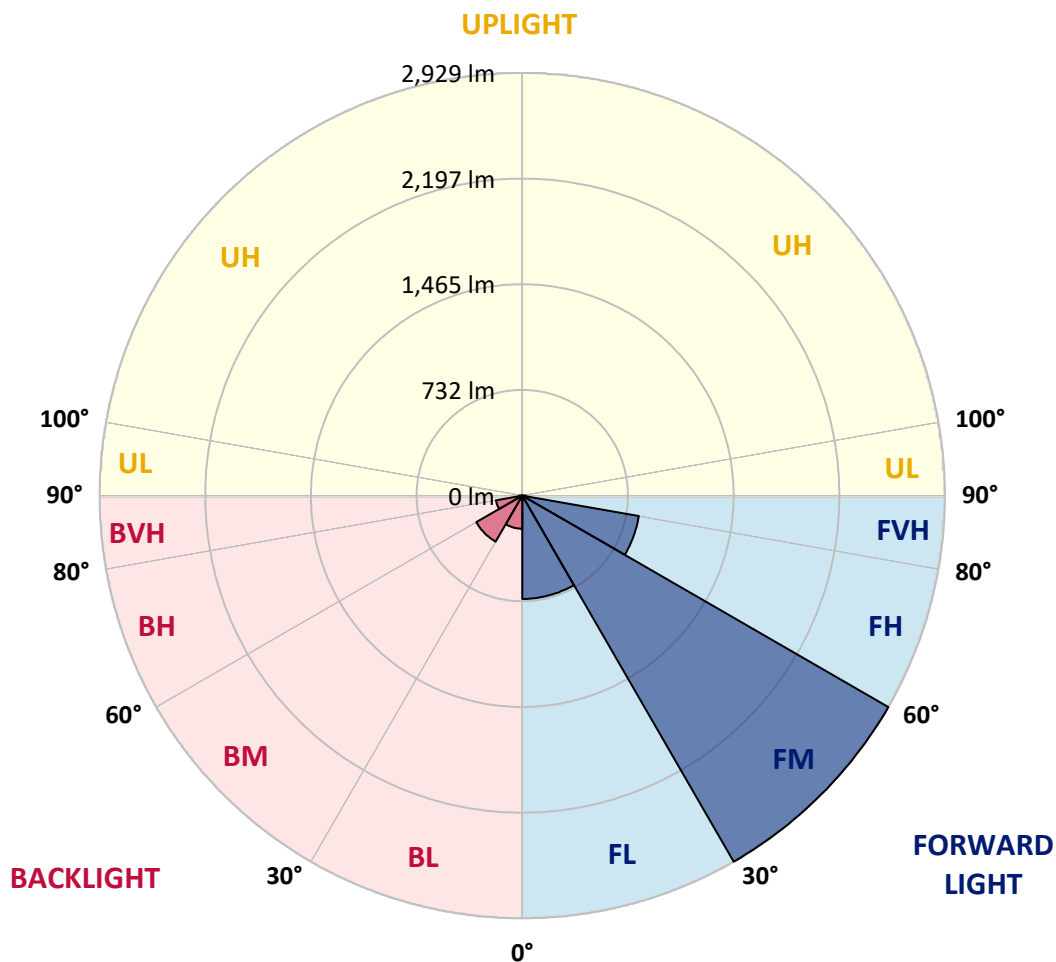
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	715.8	13.5			
FM	(30°-60°)	2929.4	55.3			
FH	(60°-80°)	820.5	15.5			G1/1800
FVH	(80°-90°)	24.1	0.5			G1/100
BL	(0°-30°)	229.4	4.3	B1/500		
BM	(30°-60°)	368.2	7.0	B1/1000		
BH	(60°-80°)	185.3	3.5	B1/500		G1/500
BVH	(80°-90°)	22.3	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1112.4	1112.4	1112.4	1112.4	1112.4	1112.4	1112.4	1112.4	1112.4	1112.4	1112.4
2.5°	1382.3	1367.2	1355.3	1344.9	1331.3	1294.4	1257.6	1257.1	1227.8	1182.6	1136.2
5°	1607.5	1587.2	1589.8	1557.3	1524.9	1471.5	1393.6	1389.5	1327.2	1242.6	1156.5
7.5°	1754.1	1754.4	1746.3	1727.8	1692.7	1632.1	1543.7	1523.7	1437.0	1308.6	1179.7
10°	1746.6	1754.4	1768.0	1784.0	1794.7	1764.9	1684.3	1659.9	1547.2	1388.6	1205.5
12.5°	1646.3	1658.5	1677.9	1717.9	1782.5	1831.8	1804.3	1784.6	1674.7	1468.3	1233.9
15°	1583.7	1591.0	1601.7	1628.6	1698.2	1816.2	1887.5	1877.0	1795.0	1558.5	1265.7
17.5°	1564.6	1571.8	1575.3	1591.8	1641.4	1762.2	1920.2	1938.8	1901.7	1641.4	1297.9
20°	1583.7	1587.2	1587.2	1597.0	1635.9	1730.7	1918.8	1956.2	1989.2	1740.8	1328.1
22.5°	1633.8	1635.3	1633.3	1636.7	1665.7	1739.4	1905.1	1951.5	2059.9	1825.1	1351.5
25°	1715.3	1717.6	1704.3	1696.2	1717.3	1777.6	1912.7	1955.3	2115.3	1905.7	1367.2
27.5°	1807.8	1810.7	1794.4	1775.6	1785.4	1824.9	1942.2	1980.5	2156.7	1985.1	1377.0
30°	1921.1	1922.2	1895.0	1872.4	1866.0	1895.3	1992.7	2028.3	2208.3	2078.8	1391.8
32.5°	2037.0	2045.7	2010.6	1978.8	1968.0	1977.0	2067.2	2101.7	2269.8	2179.3	1415.6
35°	2194.7	2196.1	2154.1	2115.3	2079.9	2091.5	2162.5	2187.4	2354.7	2295.6	1449.2
37.5°	2391.5	2404.8	2346.9	2274.4	2230.9	2214.1	2277.9	2305.1	2473.8	2438.2	1499.9
40°	2610.0	2615.0	2565.4	2520.2	2440.8	2392.1	2436.1	2465.7	2620.8	2608.3	1558.8
42.5°	2747.4	2758.1	2761.9	2757.3	2697.6	2615.8	2632.6	2646.6	2794.7	2768.0	1619.1
45°	2793.8	2809.7	2863.7	2977.9	2984.2	2903.7	2864.5	2877.9	2984.2	2929.2	1676.7
47.5°	2717.0	2744.2	2843.7	3077.8	3253.2	3259.3	3141.3	3112.0	3157.0	3062.8	1718.5
50°	2518.4	2524.2	2676.4	3015.5	3379.3	3599.3	3477.3	3422.8	3321.0	3161.6	1747.2
52.5°	2211.2	2217.9	2345.4	2726.0	3301.6	3836.9	3870.3	3772.9	3487.7	3238.4	1766.0
55°	1641.4	1679.9	1820.2	2188.0	2933.5	3814.6	4182.7	4127.4	3689.1	3299.3	1795.6
57.5°	1009.2	973.9	1140.2	1488.6	2206.3	3508.0	4279.2	4297.2	3910.9	3350.3	1845.1
60°	464.3	471.3	540.0	767.8	1344.9	2744.2	4030.6	4144.2	4033.5	3348.6	1857.6
62.5°	320.0	313.6	296.2	337.1	613.3	1735.6	3404.5	3597.0	3787.7	3244.5	1808.0
65°	286.1	279.7	246.1	234.8	281.7	756.5	2475.0	2717.9	3189.1	2981.9	1684.6
67.5°	267.2	258.5	223.8	201.7	201.2	301.1	1459.4	1751.8	2365.4	2521.1	1459.7
70°	247.5	240.6	206.1	181.7	171.3	189.3	641.4	839.7	1535.9	1816.7	1137.1
72.5°	227.8	219.7	188.7	162.6	149.0	141.7	245.8	319.7	867.8	1089.2	697.1
75°	199.1	195.1	168.7	147.2	132.5	114.5	155.9	178.0	415.1	500.3	349.8
77.5°	174.2	169.8	149.8	128.7	118.0	93.0	110.7	120.9	175.1	202.9	158.0
80°	127.5	131.9	126.4	113.6	105.2	73.0	74.5	82.9	104.1	115.1	96.5
82.5°	80.9	89.0	97.4	87.5	79.7	57.7	51.6	54.8	71.0	75.4	42.9
85°	33.9	34.5	56.5	53.3	45.5	34.2	31.0	32.8	38.0	39.7	20.0
87.5°	13.0	12.8	20.0	18.5	14.2	9.9	9.9	11.0	15.1	13.9	6.4
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°	1112.4	1112.4	1112.4	1112.4	1112.4	1112.4	1112.4	1112.4	1112.4	1112.4	1112.4
2.5°	1116.2	1095.6	1054.7	1004.0	966.9	925.2	888.4	862.0	852.1	847.5	838.8
5°	1115.3	1074.7	990.1	901.4	830.1	757.1	695.3	655.3	651.9	625.2	622.6
7.5°	1115.6	1053.6	918.8	788.4	679.7	604.9	553.9	540.6	524.6	520.6	522.6
10°	1116.5	1026.6	842.3	676.5	571.3	522.3	503.2	498.0	498.5	500.3	500.6
12.5°	1117.6	1000.5	762.9	591.6	510.4	490.1	488.1	492.7	497.7	501.4	502.3
15°	1119.1	970.7	685.5	523.2	480.0	478.2	484.9	492.7	499.7	505.2	506.1
17.5°	1117.3	935.9	620.6	481.1	463.2	471.6	482.6	492.4	498.8	504.0	504.6
20°	1113.3	897.1	557.9	451.6	452.7	466.4	478.2	487.5	494.5	497.1	499.1
22.5°	1097.6	850.7	503.5	428.7	440.3	459.1	473.3	478.8	471.0	465.5	466.9
25°	1071.0	790.4	452.7	410.1	429.0	449.0	463.5	450.1	443.8	441.4	442.6
27.5°	1037.6	724.3	414.5	390.7	414.5	437.7	433.6	431.3	428.4	424.6	425.5
30°	1001.7	659.7	382.0	375.6	398.8	412.2	413.9	417.7	414.5	408.7	411.0
32.5°	968.4	598.8	357.4	362.9	387.8	385.8	398.8	403.2	388.4	369.0	369.8
35°	940.0	542.3	338.8	350.4	369.0	369.8	382.9	367.8	351.9	342.6	343.2
37.5°	918.5	498.2	326.7	339.7	344.9	355.9	349.0	341.1	339.1	332.7	333.0
40°	905.8	459.7	318.8	331.3	330.4	338.0	315.6	323.5	326.4	324.3	324.6
42.5°	893.0	432.4	310.7	319.7	319.4	304.6	299.7	306.4	313.9	314.8	314.2
45°	882.9	411.3	302.3	302.0	307.8	284.6	283.2	287.2	298.0	303.2	302.9
47.5°	871.6	393.6	289.6	281.4	283.2	272.2	269.8	271.6	284.6	293.0	295.4
50°	857.4	375.9	273.6	262.6	255.4	260.6	261.1	261.4	274.5	284.0	286.1
52.5°	846.1	362.6	255.4	247.2	238.5	250.1	254.5	255.1	262.9	270.7	272.2
55°	852.7	355.1	237.4	231.6	223.8	239.4	247.8	249.0	250.7	256.5	257.4
57.5°	872.7	356.8	222.9	215.4	209.6	226.7	240.9	241.7	240.6	247.5	248.7
60°	878.8	355.9	212.2	197.4	193.9	213.0	230.7	232.5	232.2	242.3	244.3
62.5°	853.3	344.9	201.4	182.3	180.0	199.1	216.5	223.5	224.9	239.4	242.0
65°	793.3	322.3	187.2	166.4	166.4	184.3	202.9	212.5	216.5	235.9	238.8
67.5°	714.2	295.6	172.7	152.7	152.2	170.1	188.4	198.3	204.6	231.0	232.7
70°	592.7	259.7	154.8	138.0	138.0	154.2	170.7	182.6	191.9	221.7	221.7
72.5°	406.1	215.9	133.0	121.2	121.4	136.5	153.3	166.7	177.7	203.2	203.8
75°	256.8	168.7	109.3	103.2	104.3	118.5	135.9	149.8	171.9	200.9	201.7
77.5°	136.5	118.5	87.0	85.5	87.0	100.0	119.4	138.5	172.5	174.2	171.3
80°	88.4	84.1	68.7	65.8	66.4	80.6	106.4	131.6	138.5	140.3	133.9
82.5°	48.1	53.3	48.7	45.8	45.8	62.9	90.7	104.6	99.4	82.6	78.8
85°	20.6	24.9	25.2	22.0	21.2	38.8	60.9	57.1	53.0	50.7	50.1
87.5°	5.8	8.1	8.1	6.1	4.6	10.7	12.2	3.5	0.0	0.3	0.6
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)