

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: P527399

Luminaire Tested: **GALN-SA2B-830-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527399
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-830-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5307 lumens
Efficiency: N/A
Efficacy: 64.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

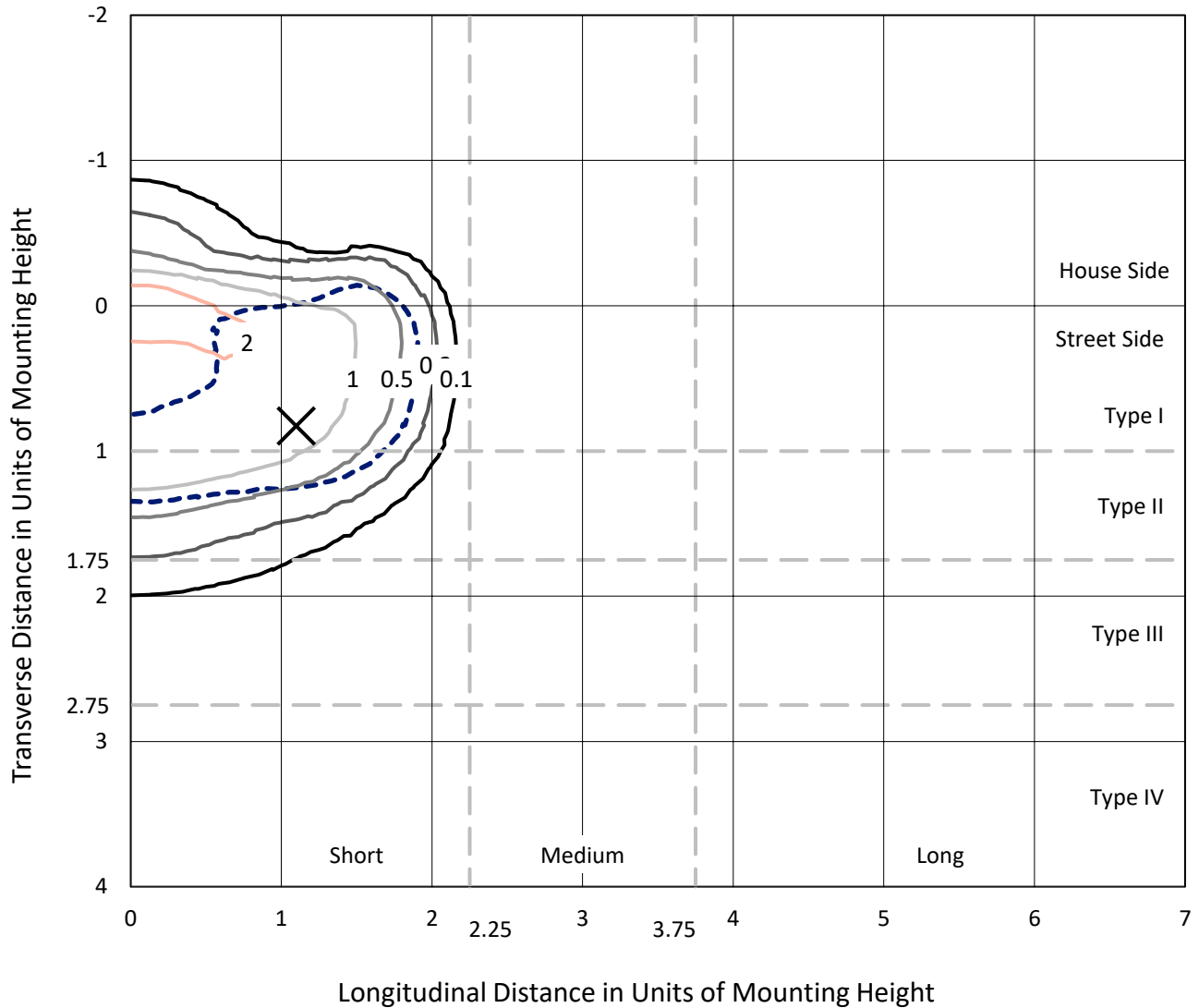
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

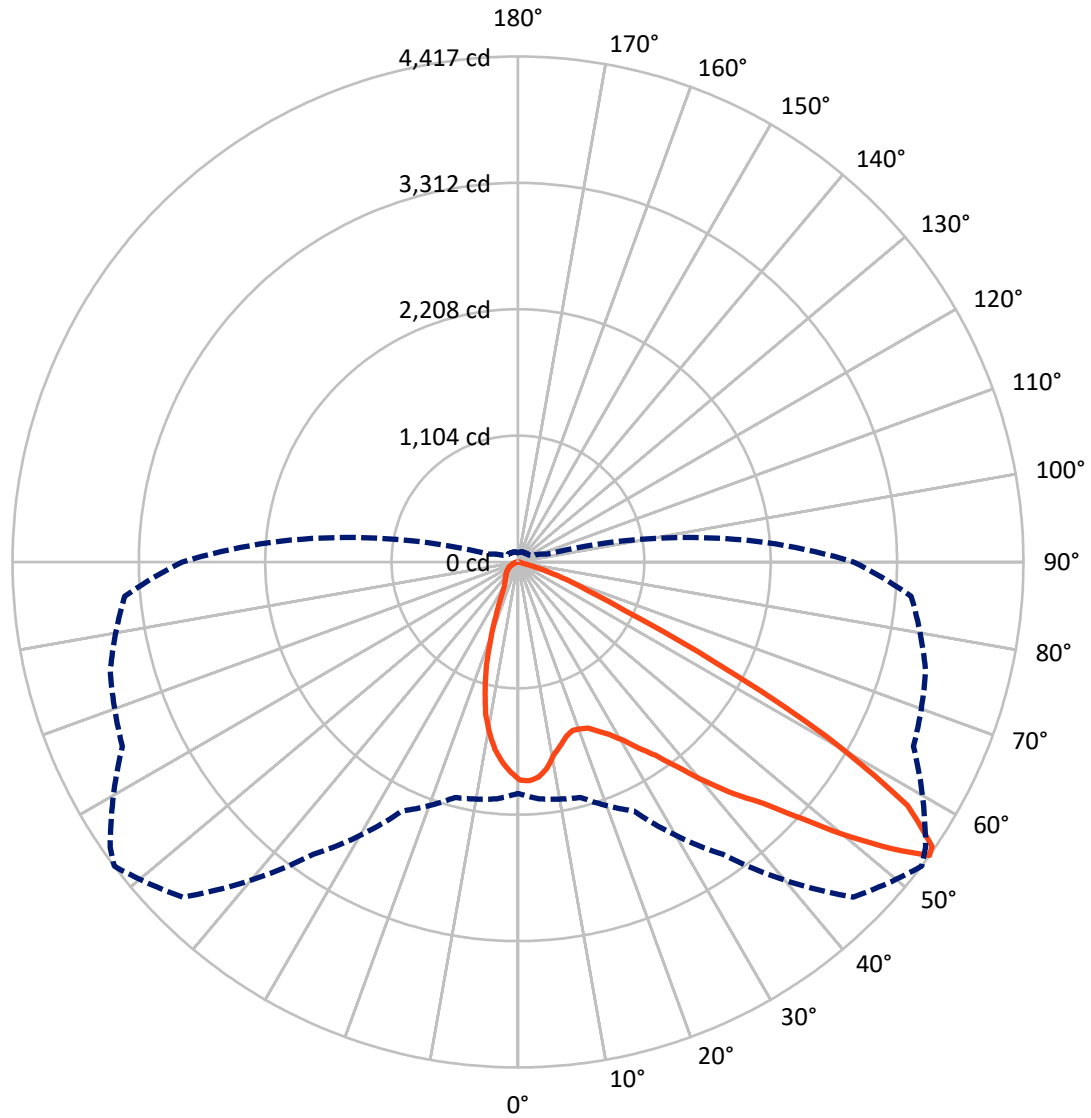
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	878.1	0.0	878.1
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	4428.9	0.0	4428.9
	% Fixture	83.5	0.0	83.5
Total	Lumens	5307.0	0.0	5307.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.5	3.1
10°-20°	375.0	7.1
20°-30°	532.9	10.0
30°-40°	822.4	15.5
40°-50°	1289.4	24.3
50°-60°	1497.9	28.2
60°-70°	566.0	10.7
70°-80°	53.8	1.0
80°-90°	6.1	0.1
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°	5307.0	100.0
0°-180°	5307.0	100.0

Coefficient of Utilization

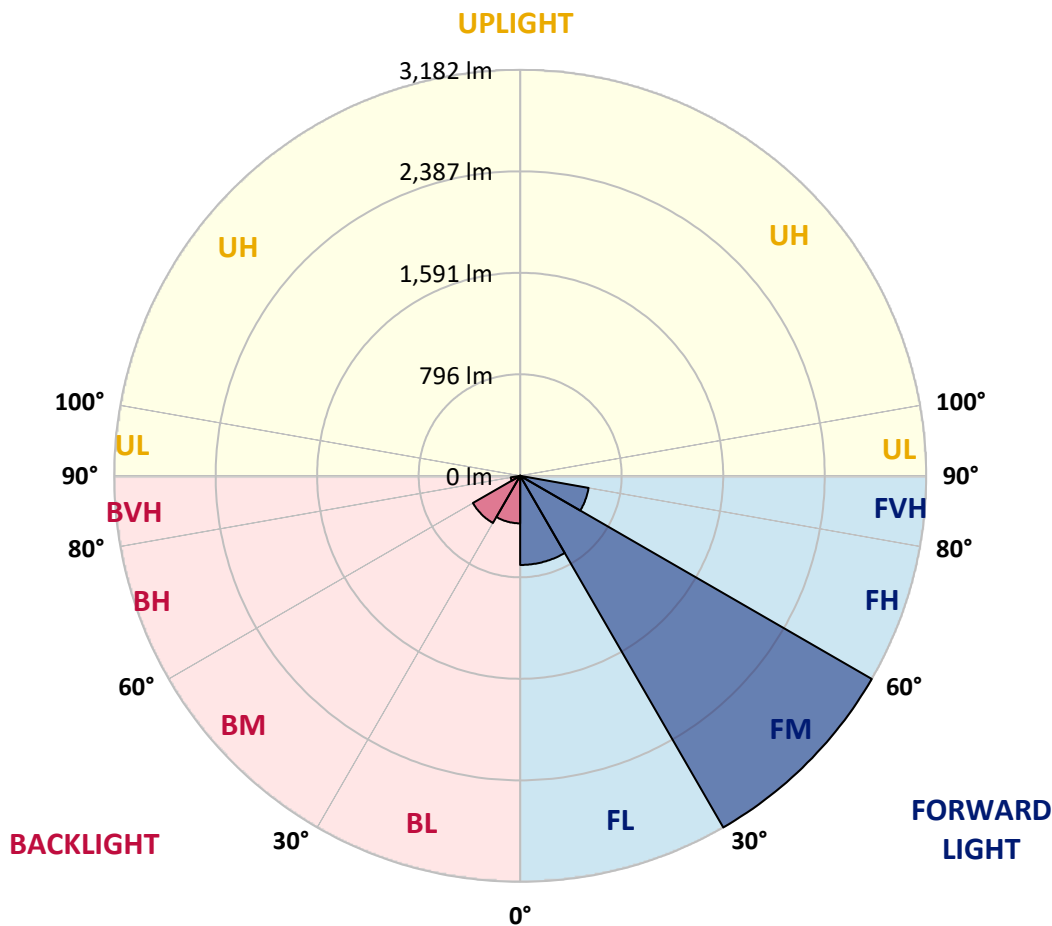


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	698.8	13.2			
FM (30°-60°)	3182.4	60.0			
FH (60°-80°)	544.6	10.3			G0/660
FVH (80°-90°)	3.1	0.1			G0/10
BL (0°-30°)	372.6	7.0	B1/500		
BM (30°-60°)	427.3	8.1	B1/1000		
BH (60°-80°)	75.2	1.4	B0/110		G0/110
BVH (80°-90°)	2.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	1906.2	1906.2	1906.2	1906.2	1906.2	1906.2	1906.2	1906.2	1906.2	1906.2	1906.2
2.5°	1896.3	1879.5	1896.3	1898.3	1910.1	1921.0	1914.1	1929.9	1921.0	1911.1	1908.2
5°	1743.1	1765.8	1766.8	1802.4	1794.5	1859.7	1888.4	1880.5	1928.9	1926.0	1919.0
7.5°	1605.6	1596.7	1608.6	1650.1	1702.5	1777.7	1819.2	1818.2	1887.4	1936.8	1931.9
10°	1478.1	1477.1	1501.8	1534.4	1578.9	1658.0	1715.4	1744.0	1851.8	1926.9	1937.8
12.5°	1392.1	1388.1	1414.8	1441.5	1511.7	1573.0	1646.2	1660.0	1783.6	1892.3	1910.1
15°	1335.7	1344.6	1346.6	1398.0	1442.5	1523.6	1580.9	1609.6	1752.0	1864.7	1932.9
17.5°	1325.8	1337.7	1338.7	1381.2	1428.7	1496.9	1547.3	1585.9	1725.3	1878.5	1933.9
20°	1345.6	1338.7	1344.6	1371.3	1417.8	1483.0	1556.2	1569.0	1716.4	1885.4	1944.7
22.5°	1402.0	1400.0	1385.1	1406.9	1439.5	1507.7	1577.0	1596.7	1742.1	1921.0	1953.6
25°	1464.2	1475.1	1461.3	1458.3	1481.1	1548.3	1640.2	1665.9	1828.1	1985.3	1981.3
27.5°	1580.9	1570.0	1570.0	1556.2	1550.3	1582.9	1708.4	1751.0	1924.0	2068.3	2013.0
30°	1692.6	1704.5	1695.6	1700.5	1661.0	1658.0	1805.3	1857.7	2094.0	2194.9	2080.2
32.5°	1869.6	1853.8	1868.6	1855.8	1803.4	1750.0	1936.8	1991.2	2299.7	2340.2	2181.0
35°	2016.9	2010.0	2073.3	2071.3	1986.3	1933.9	2076.2	2157.3	2443.0	2514.2	2299.7
37.5°	2226.5	2213.7	2285.8	2320.4	2244.3	2166.2	2276.0	2369.9	2576.5	2653.6	2421.3
40°	2442.1	2474.7	2571.6	2628.9	2547.8	2444.0	2520.2	2548.8	2665.5	2744.6	2504.3
42.5°	2714.9	2762.4	2861.3	2910.7	2903.8	2791.1	2768.3	2767.3	2729.8	2718.9	2565.6
45°	2976.9	2959.1	3111.4	3219.2	3306.2	3273.5	3007.6	2977.9	2831.6	2757.4	2581.5
47.5°	3091.6	3085.7	3189.5	3381.3	3677.9	3718.4	3355.6	3240.9	3003.6	2919.6	2667.5
50°	2943.3	2974.0	3076.8	3289.4	3744.2	4053.6	3782.7	3628.5	3204.3	3117.3	2871.1
52.5°	2458.9	2479.6	2577.5	2847.4	3518.7	4251.3	4192.0	4103.0	3573.1	3428.8	3226.1
54°	2021.9	2077.2	2130.6	2401.5	3117.3	4141.6	4416.5	4348.2	3813.4	3687.8	3449.5
55°	1760.8	1793.5	1832.0	2101.9	2839.5	3955.7	4390.8	4396.7	3974.5	3768.9	3599.8
57.5°	1286.3	1309.0	1269.5	1389.1	1949.7	3212.2	4016.0	4176.2	4192.0	3890.5	3691.8
60°	982.8	992.6	948.1	966.9	1212.1	2204.8	3106.4	3299.2	3781.7	3400.1	3127.2
62.5°	762.3	764.3	763.3	795.9	835.4	1297.2	1942.8	2113.8	2607.2	2414.4	2123.7
65°	561.6	552.7	568.5	667.4	712.8	815.7	1023.3	1147.9	1416.8	1196.3	855.2
67.5°	363.8	366.8	382.6	496.3	611.0	625.8	629.8	619.9	620.9	342.1	214.5
70°	218.5	223.4	218.5	280.8	437.0	448.9	410.3	400.4	312.4	81.1	80.1
72.5°	129.5	122.6	109.7	120.6	181.9	217.5	195.8	194.8	122.6	47.5	47.5
75°	54.4	49.4	40.5	36.6	48.4	46.5	46.5	41.5	32.6	31.6	29.7
77.5°	10.9	10.9	7.9	8.9	11.9	13.8	16.8	16.8	19.8	19.8	18.8
80°	0.0	1.0	3.0	5.9	8.9	12.9	14.8	14.8	16.8	16.8	13.8
82.5°	0.0	1.0	3.0	5.9	7.9	11.9	14.8	14.8	16.8	17.8	14.8
85°	0.0	1.0	3.0	4.9	7.9	9.9	9.9	8.9	6.9	5.9	4.0
87.5°	0.0	0.0	1.0	2.0	1.0	2.0	2.0	2.0	2.0	2.0	2.0
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°	1906.2	1906.2	1906.2	1906.2	1906.2	1906.2	1906.2	1906.2	1906.2	1906.2	1906.2
2.5°	1915.1	1914.1	1890.4	1851.8	1842.9	1810.3	1806.3	1786.6	1797.4	1760.8	1756.9
5°	1899.3	1887.4	1858.7	1834.0	1761.8	1710.4	1669.9	1620.5	1591.8	1596.7	1577.9
7.5°	1922.0	1891.4	1840.9	1754.9	1666.9	1577.0	1528.5	1427.7	1391.1	1336.7	1328.8
10°	1898.3	1875.5	1797.4	1655.1	1533.5	1403.9	1290.2	1178.5	1093.5	1056.9	1049.0
12.5°	1896.3	1856.8	1726.2	1568.1	1392.1	1206.2	1041.1	901.7	817.6	770.2	759.3
15°	1865.6	1818.2	1646.2	1433.6	1190.4	959.0	779.1	644.6	580.4	552.7	560.6
17.5°	1868.6	1797.4	1566.1	1291.2	991.7	703.9	531.9	462.7	445.9	452.8	452.8
20°	1865.6	1751.0	1469.2	1127.1	759.3	488.4	390.5	365.8	376.7	398.4	393.5
22.5°	1849.8	1729.2	1380.2	954.1	558.6	361.9	313.4	314.4	331.2	357.9	363.8
25°	1861.7	1680.8	1267.5	779.1	407.3	288.7	271.9	278.8	296.6	316.4	320.3
27.5°	1852.8	1646.2	1149.8	605.1	297.6	248.2	247.2	255.1	263.0	277.8	277.8
30°	1862.7	1614.5	1034.2	449.9	245.2	227.4	223.4	229.4	237.3	240.3	239.3
32.5°	1899.3	1590.8	900.7	336.2	216.5	207.6	207.6	207.6	206.6	210.6	211.6
35°	1979.3	1594.7	783.0	260.0	197.7	190.8	187.9	183.9	181.9	183.9	184.9
37.5°	2066.4	1592.8	661.4	221.5	183.9	178.0	171.0	165.1	164.1	166.1	163.1
40°	2104.9	1611.6	548.7	198.7	171.0	164.1	153.2	148.3	149.3	151.3	149.3
42.5°	2157.3	1617.5	475.6	180.9	159.2	148.3	141.4	135.4	134.5	137.4	136.4
45°	2156.3	1583.9	398.4	171.0	148.3	136.4	127.5	122.6	122.6	124.6	125.6
47.5°	2219.6	1578.9	342.1	162.1	140.4	128.5	117.7	113.7	112.7	112.7	110.7
50°	2366.9	1648.1	298.6	152.3	130.5	119.6	110.7	105.8	101.8	99.9	98.9
52.5°	2654.6	1863.7	265.0	140.4	119.6	110.7	102.8	98.9	93.9	89.0	88.0
54°	2933.4	2086.1	263.0	130.5	110.7	104.8	97.9	95.9	90.0	83.0	81.1
55°	3059.0	2215.6	269.9	122.6	104.8	100.8	94.9	92.9	87.0	79.1	78.1
57.5°	3162.8	2266.1	266.0	101.8	94.9	93.9	89.0	86.0	79.1	68.2	66.2
60°	2545.9	1713.4	190.8	90.0	87.0	85.0	81.1	79.1	70.2	58.3	57.3
62.5°	1608.6	985.7	121.6	79.1	76.1	73.2	68.2	66.2	58.3	46.5	43.5
65°	685.2	408.3	82.1	70.2	65.3	60.3	56.4	53.4	46.5	34.6	33.6
67.5°	178.0	145.3	68.2	61.3	54.4	47.5	44.5	39.5	31.6	23.7	22.7
70°	80.1	73.2	57.3	51.4	43.5	36.6	32.6	27.7	20.8	15.8	14.8
72.5°	47.5	46.5	43.5	38.6	32.6	27.7	23.7	18.8	13.8	8.9	8.9
75°	29.7	28.7	29.7	26.7	22.7	20.8	17.8	12.9	7.9	4.0	4.0
77.5°	17.8	17.8	17.8	16.8	15.8	15.8	12.9	7.9	4.0	1.0	1.0
80°	13.8	13.8	14.8	13.8	13.8	13.8	10.9	5.9	2.0	0.0	0.0
82.5°	13.8	14.8	16.8	15.8	13.8	11.9	9.9	5.9	2.0	0.0	0.0
85°	4.0	3.0	4.9	6.9	9.9	8.9	6.9	4.9	2.0	0.0	0.0
87.5°	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0
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)