

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: P527140

Luminaire Tested: **GALN-SA2A-827-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527140
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-827-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5730 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

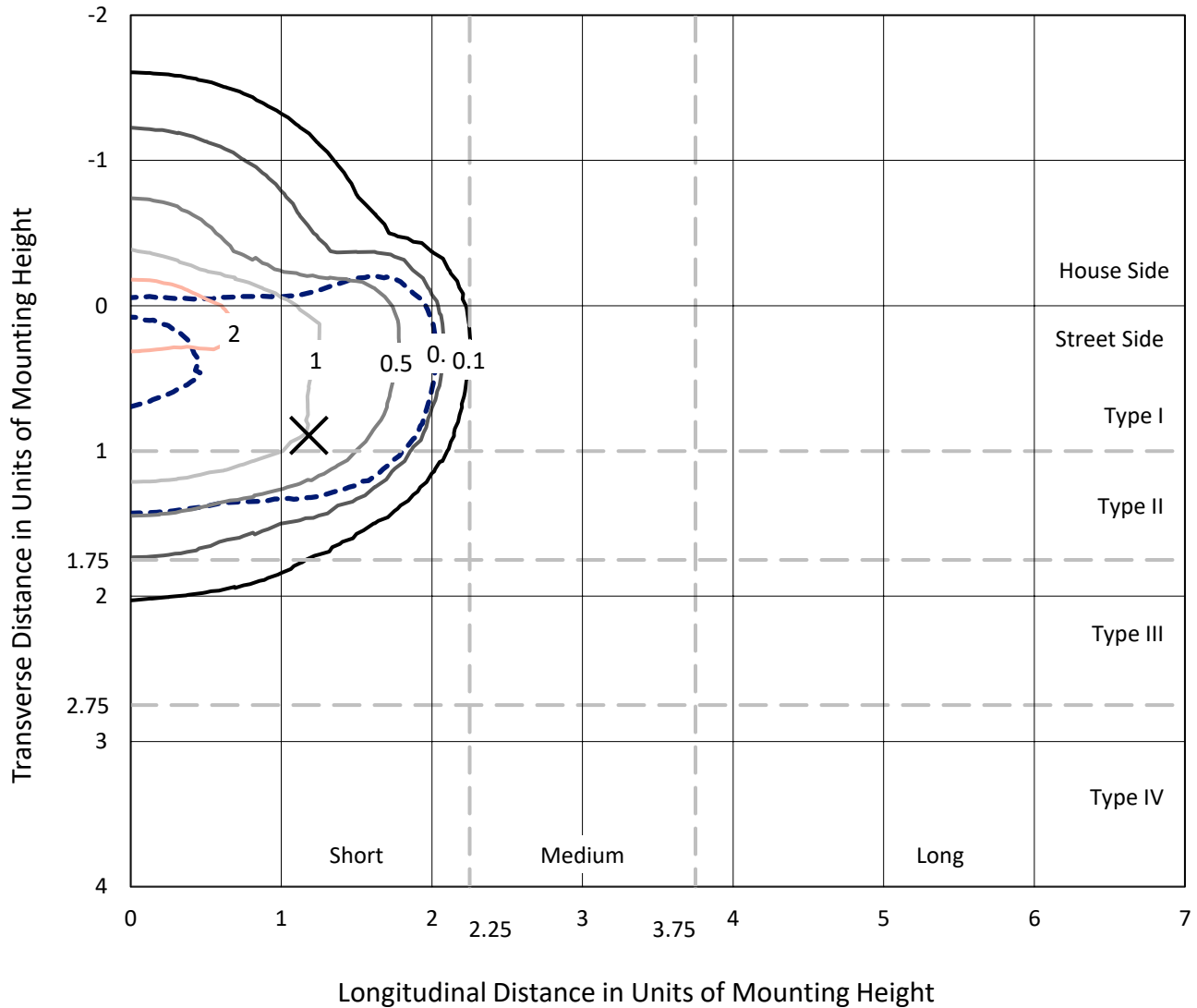
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

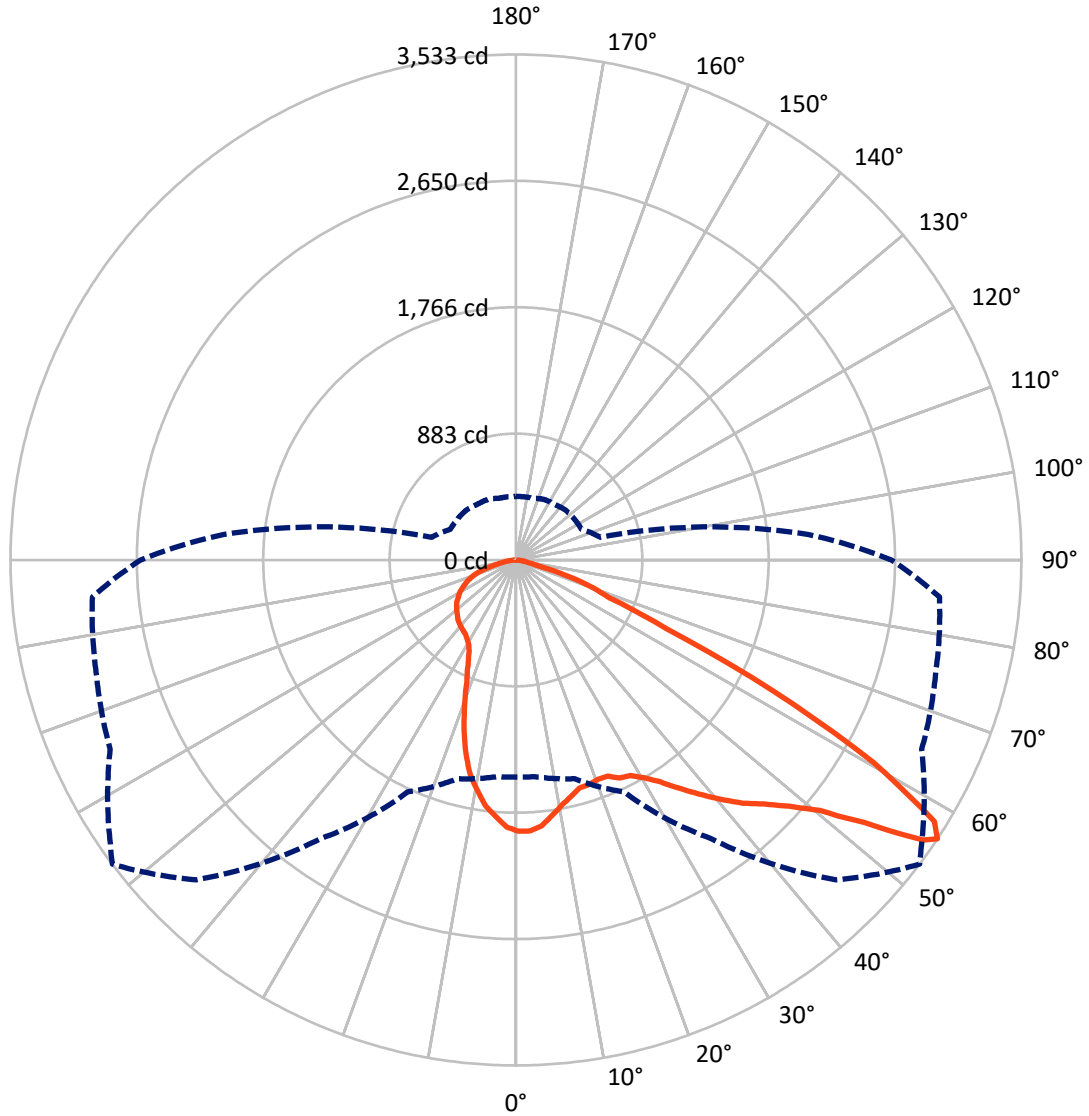
✕ Max cd
 - - - 1/2 Max cd



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 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1672.1	0.0	1672.1
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	4057.9	0.0	4057.9
	% Fixture	70.8	0.0	70.8
Total	Lumens	5730.0	0.0	5730.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.8	2.9
10°-20°	419.2	7.3
20°-30°	618.1	10.8
30°-40°	883.1	15.4
40°-50°	1215.5	21.2
50°-60°	1436.4	25.1
60°-70°	765.5	13.4
70°-80°	194.2	3.4
80°-90°	30.3	0.5
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°	5730.0	100.0
0°-180°	5730.0	100.0

Coefficient of Utilization



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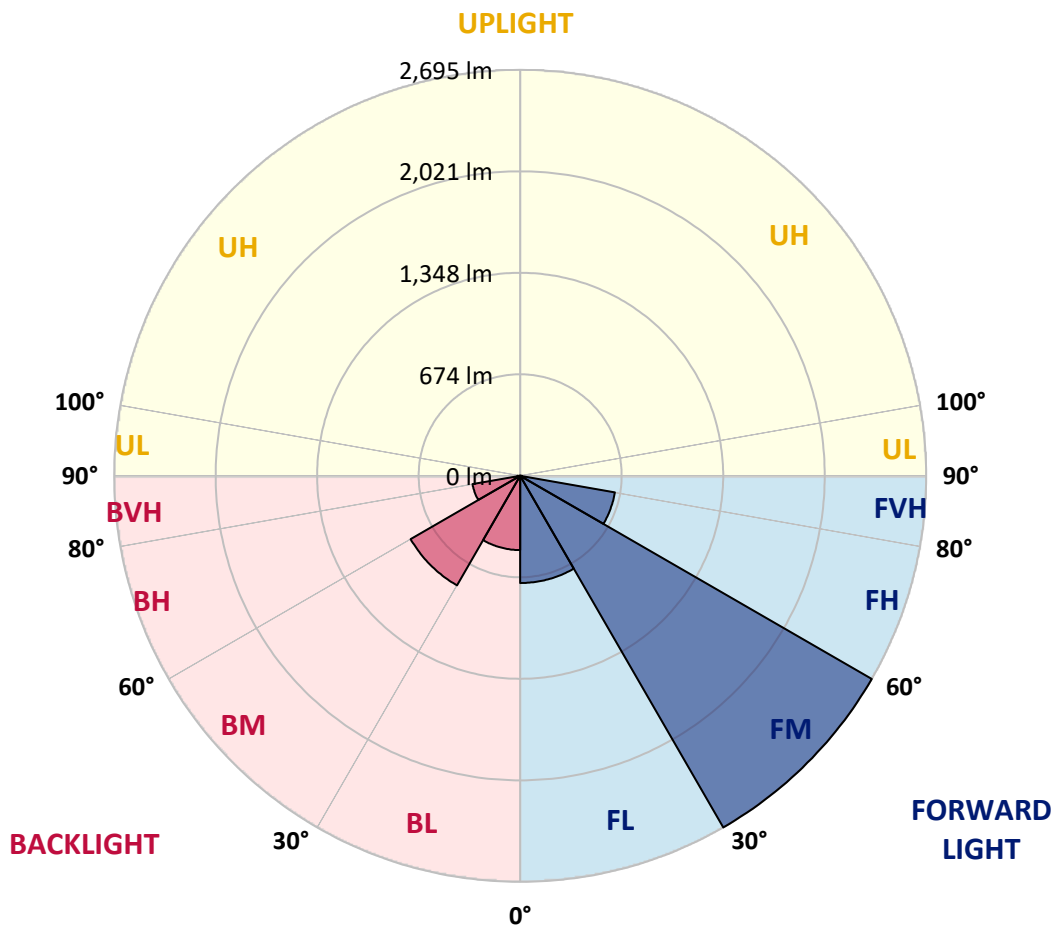
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	711.9	12.4			
FM (30°-60°)	2695.3	47.0			
FH (60°-80°)	638.5	11.1			G0/660
FVH (80°-90°)	12.2	0.2			G1/100
BL (0°-30°)	493.2	8.6	B1/500		
BM (30°-60°)	839.7	14.7	B1/1000		
BH (60°-80°)	321.2	5.6	B1/500		G1/500
BVH (80°-90°)	18.1	0.3			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°	53°	55°	65°	75°	85°
0°	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7
2.5°	1872.2	1856.0	1865.6	1861.9	1892.0	1900.9	1896.4	1900.1	1917.0	1908.9	1892.0
5°	1749.4	1772.2	1776.6	1787.7	1805.3	1839.8	1867.0	1874.4	1882.5	1920.0	1916.3
7.5°	1637.7	1653.1	1645.1	1677.4	1715.6	1771.5	1804.6	1810.4	1884.7	1905.3	1920.7
10°	1567.1	1551.7	1588.5	1597.3	1640.6	1704.6	1744.3	1768.5	1836.2	1917.8	1927.3
12.5°	1501.7	1496.6	1518.6	1543.6	1592.1	1658.3	1698.7	1708.3	1812.6	1898.7	1943.5
15°	1453.2	1447.3	1469.4	1487.8	1544.4	1603.2	1654.6	1681.8	1786.9	1887.6	1929.5
17.5°	1415.0	1414.2	1426.7	1459.8	1517.9	1567.1	1650.2	1651.7	1773.7	1904.5	1941.3
20°	1412.8	1412.0	1414.2	1451.0	1503.9	1564.2	1636.2	1649.5	1773.7	1892.8	1942.0
22.5°	1431.2	1419.4	1432.6	1456.1	1494.4	1569.3	1641.4	1670.8	1816.3	1950.8	1975.1
25°	1460.6	1463.5	1470.8	1478.9	1501.0	1581.1	1687.0	1711.2	1866.3	2000.8	2020.7
27.5°	1514.2	1512.7	1515.7	1520.1	1539.2	1592.1	1705.3	1767.8	1970.7	2089.8	2069.9
30°	1592.9	1587.7	1599.5	1614.9	1597.3	1627.4	1766.3	1813.4	2067.7	2179.4	2125.0
32.5°	1664.2	1683.3	1705.3	1711.9	1690.6	1696.5	1847.2	1895.0	2148.6	2289.7	2192.7
35°	1753.1	1768.5	1797.9	1818.5	1814.9	1797.2	1957.5	2020.7	2265.4	2370.6	2264.0
37.5°	1839.8	1858.2	1906.7	1967.7	1933.9	1925.8	2075.1	2127.3	2301.5	2413.9	2316.2
40°	1979.5	1978.8	2062.6	2094.2	2124.3	2110.3	2197.1	2214.7	2320.6	2404.4	2317.6
42.5°	2143.4	2133.1	2218.4	2267.6	2306.6	2308.1	2324.2	2318.4	2329.4	2355.9	2302.2
45°	2299.3	2321.3	2407.3	2495.5	2534.5	2538.9	2431.6	2420.5	2344.8	2341.9	2272.8
47.5°	2489.6	2494.8	2565.3	2681.5	2771.9	2741.0	2570.5	2546.2	2412.5	2435.2	2322.0
50°	2500.7	2538.9	2602.1	2738.8	3016.7	3008.6	2750.6	2705.0	2521.2	2567.6	2459.5
52.5°	2269.9	2261.0	2336.0	2559.5	2998.3	3274.7	3049.0	2940.2	2755.0	2719.7	2682.2
55°	1729.6	1750.2	1816.3	2042.0	2603.6	3278.4	3455.5	3366.6	3004.9	2944.6	2901.3
56°	1517.2	1520.1	1582.6	1788.4	2375.7	3161.5	3532.7	3460.6	3129.1	3037.3	2971.1
57.5°	1257.7	1240.8	1273.1	1385.6	2005.2	2914.5	3448.1	3518.7	3274.7	3137.2	3045.3
60°	990.1	986.4	973.2	993.8	1267.2	2195.6	2870.4	3029.2	3260.0	3043.1	2916.7
62.5°	808.6	790.2	816.6	846.0	880.6	1362.1	2017.0	2110.3	2588.1	2429.4	2191.2
65°	627.0	618.2	651.3	746.8	767.4	865.2	1148.9	1220.9	1528.2	1501.0	1321.6
67.5°	431.5	432.9	461.6	607.2	711.5	702.7	703.4	740.9	797.5	592.5	516.0
70°	273.4	272.7	288.1	391.0	572.6	578.5	549.1	538.1	510.1	308.7	327.1
72.5°	175.7	170.5	178.6	216.1	296.2	342.5	352.8	359.4	295.5	242.6	263.2
75°	99.2	94.1	91.1	100.7	116.9	135.3	148.5	152.9	171.3	183.8	194.8
77.5°	30.1	27.2	33.1	44.1	58.1	77.9	94.8	97.8	115.4	130.1	141.1
80°	13.2	14.7	20.6	29.4	41.2	55.1	66.9	71.3	83.1	94.1	97.0
82.5°	8.1	8.8	14.0	19.8	28.7	39.0	47.8	49.2	61.0	69.8	72.0
85°	2.9	3.7	7.4	11.8	18.4	25.0	25.0	27.2	25.0	25.0	27.2
87.5°	0.0	0.0	0.7	1.5	1.5	2.2	2.9	2.9	3.7	4.4	5.1
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°	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7
2.5°	1900.9	1897.2	1891.3	1870.0	1867.8	1861.2	1824.4	1818.5	1824.4	1806.8	1808.2
5°	1897.2	1908.2	1864.1	1842.8	1803.1	1774.4	1741.3	1724.4	1694.3	1675.2	1696.5
7.5°	1913.4	1908.9	1853.8	1807.5	1748.0	1675.2	1617.1	1584.0	1531.1	1516.4	1527.4
10°	1907.5	1883.9	1819.3	1758.3	1645.8	1581.8	1487.8	1396.6	1346.6	1320.9	1317.2
12.5°	1899.4	1892.8	1784.7	1679.6	1561.3	1426.7	1294.4	1208.4	1126.8	1091.6	1096.7
15°	1908.9	1853.1	1720.0	1587.0	1429.7	1253.3	1110.7	999.7	943.1	920.3	920.3
17.5°	1904.5	1834.0	1689.2	1483.3	1284.1	1075.4	918.8	851.9	828.4	828.4	835.0
20°	1906.7	1846.5	1626.7	1379.7	1112.1	905.6	791.7	767.4	777.7	781.4	785.0
22.5°	1919.2	1805.3	1565.7	1265.8	952.6	774.7	718.9	719.6	738.0	757.8	754.2
25°	1934.7	1789.1	1491.4	1152.6	830.6	710.8	693.2	691.0	704.9	715.2	716.7
27.5°	1921.4	1761.2	1415.7	1011.4	730.6	668.2	664.5	666.0	670.4	691.0	684.3
30°	1964.8	1769.3	1320.9	893.1	675.5	654.2	649.8	647.6	654.2	660.1	654.9
32.5°	2018.5	1740.6	1250.3	779.2	648.3	643.9	635.1	632.1	635.8	629.9	632.9
35°	2042.0	1735.5	1158.4	697.6	627.0	623.3	618.2	617.4	618.2	613.0	608.6
37.5°	2055.2	1759.7	1053.3	660.1	613.8	617.4	605.7	604.2	591.0	593.9	596.1
40°	2078.0	1722.2	968.1	624.1	605.7	598.3	588.0	585.8	577.0	571.9	577.0
42.5°	2044.9	1711.2	884.3	608.6	593.9	585.8	578.5	566.0	563.1	558.6	555.7
45°	2018.5	1648.0	809.3	589.5	580.0	575.5	561.6	548.4	537.3	541.7	535.1
47.5°	2038.3	1625.9	735.1	573.3	560.8	555.7	541.7	531.4	520.4	515.3	513.8
50°	2117.7	1667.1	672.6	561.6	544.7	541.7	523.4	511.6	501.3	497.6	499.1
52.5°	2307.3	1779.6	629.9	537.3	529.2	516.0	505.7	491.0	484.4	472.6	480.0
55°	2547.7	1962.6	618.9	514.5	510.1	498.4	484.4	473.4	460.9	451.3	449.1
56°	2624.9	2050.1	610.1	505.7	498.4	491.8	473.4	466.8	446.9	444.7	443.2
57.5°	2687.4	2127.3	611.6	488.8	481.5	475.6	464.6	448.4	435.2	427.1	430.7
60°	2546.2	1991.3	583.6	463.1	461.6	450.6	435.2	427.8	411.6	402.1	399.9
62.5°	1892.8	1351.8	473.4	430.0	429.3	417.5	399.9	391.8	388.8	375.6	375.6
65°	1090.1	847.5	409.4	402.8	396.9	385.2	367.5	360.9	353.6	349.2	345.5
67.5°	465.3	439.6	371.9	371.2	364.6	349.9	332.2	322.0	312.4	303.6	308.0
70°	337.4	342.5	335.9	332.2	324.2	305.8	290.3	277.9	263.2	257.3	261.7
72.5°	267.6	278.6	288.1	288.9	279.3	258.0	241.1	224.2	208.0	199.9	203.6
75°	202.9	210.2	219.8	222.0	208.0	193.3	177.1	159.5	147.0	137.5	138.9
77.5°	146.3	144.8	153.6	152.2	145.5	135.3	120.5	104.4	90.4	81.6	82.3
80°	100.0	102.2	107.3	106.6	98.5	91.9	80.9	67.6	57.3	50.0	48.5
82.5°	69.8	73.5	77.9	74.2	67.6	61.0	52.9	43.4	35.3	29.4	27.9
85°	25.0	28.7	33.1	35.3	37.5	36.0	30.1	24.3	17.6	14.7	14.0
87.5°	5.1	5.9	6.6	6.6	6.6	5.9	5.1	5.1	4.4	2.2	2.2
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)