

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: P651175

Luminaire Tested: **GALN-SA1D-840-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651175
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-SA1D-840-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS 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: 5579.2 lumens
Efficiency: N/A
Efficacy: 85.8 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

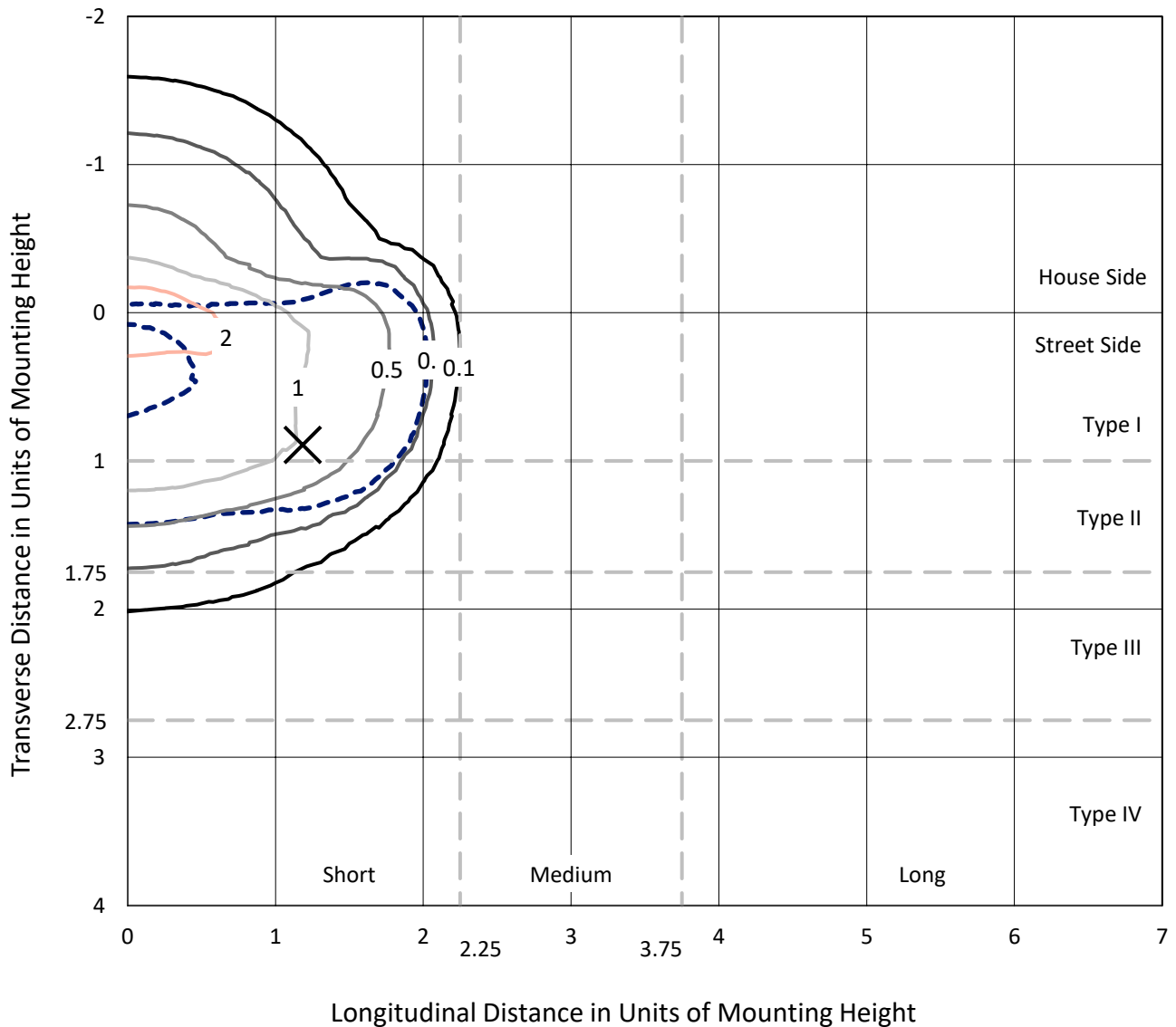
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

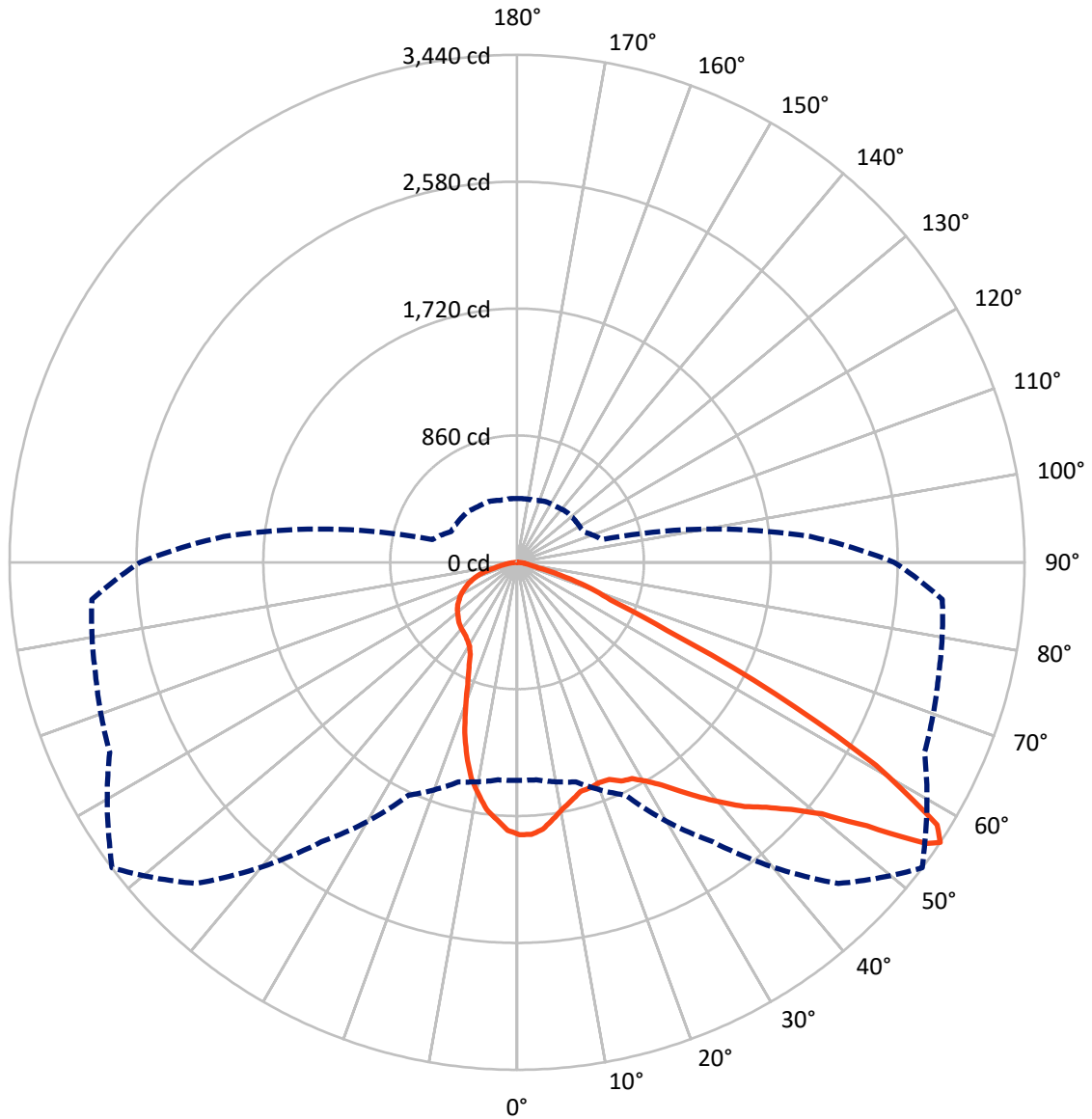
× Max cd
 - - - 1/2 Max cd



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	1628.1	0.0	1628.1
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	3951.1	0.0	3951.1
	% Fixture	70.8	0.0	70.8
Total	Lumens	5579.2	0.0	5579.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.4	2.9
10°-20°	408.1	7.3
20°-30°	601.8	10.8
30°-40°	859.9	15.4
40°-50°	1183.5	21.2
50°-60°	1398.6	25.1
60°-70°	745.3	13.4
70°-80°	189.1	3.4
80°-90°	29.5	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°	5579.2	100.0
0°-180°	5579.2	100.0

Coefficient of Utilization



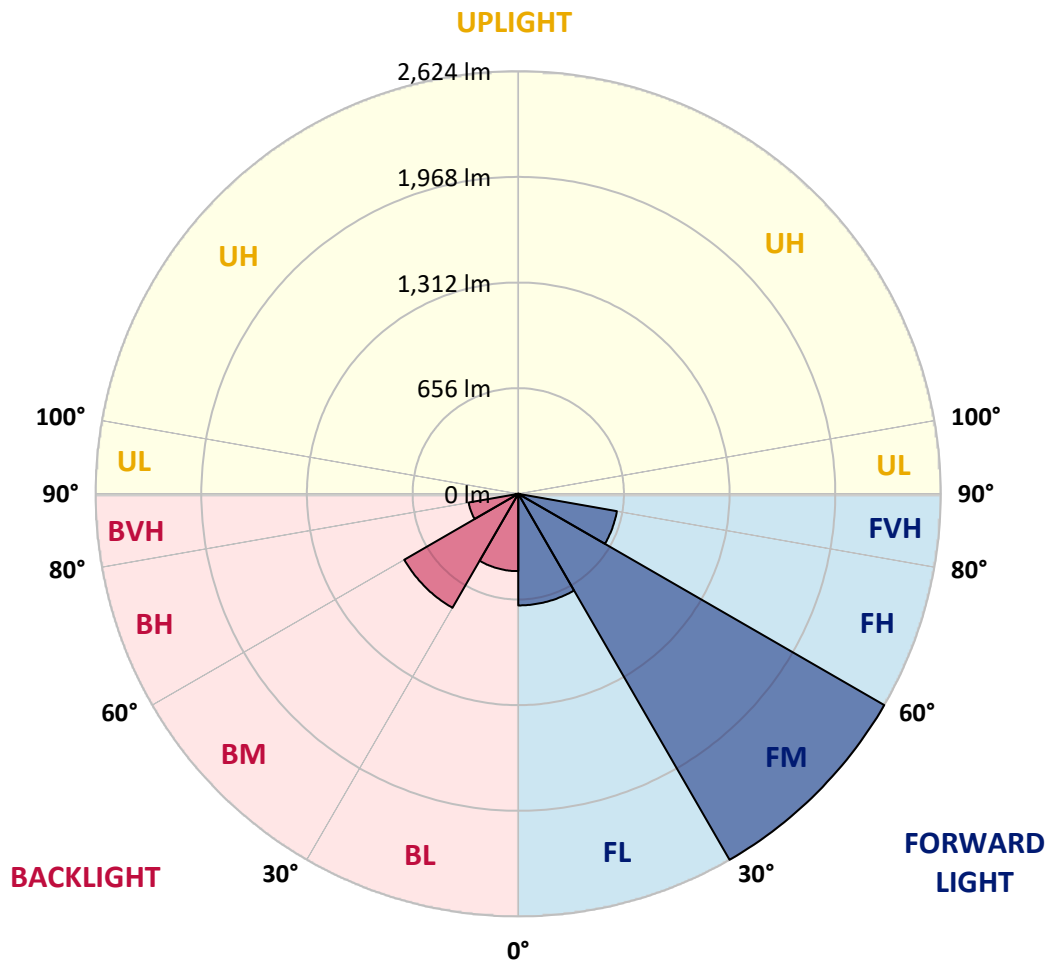
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	693.1	12.4			
FM (30°-60°)	2624.3	47.0			
FH (60°-80°)	621.7	11.1			G0/660
FVH (80°-90°)	11.8	0.2			G1/100
BL (0°-30°)	480.2	8.6	B1/500		
BM (30°-60°)	817.6	14.7	B1/1000		
BH (60°-80°)	312.7	5.6	B1/500		G1/500
BVH (80°-90°)	17.6	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°	1845.8	1845.8	1845.8	1845.8	1845.8	1845.8	1845.8	1845.8	1845.8	1845.8	1845.8
2.5°	1823.0	1807.1	1816.5	1812.9	1842.2	1850.8	1846.5	1850.1	1866.6	1858.7	1842.2
5°	1703.4	1725.6	1729.9	1740.6	1757.8	1791.4	1817.9	1825.1	1833.0	1869.5	1865.8
7.5°	1594.6	1609.7	1601.8	1633.2	1670.5	1724.9	1757.1	1762.8	1835.1	1855.2	1870.1
10°	1525.9	1510.9	1546.7	1555.3	1597.5	1659.7	1698.4	1722.0	1787.9	1867.3	1876.6
12.5°	1462.2	1457.2	1478.6	1503.0	1550.2	1614.6	1654.0	1663.3	1764.9	1848.7	1892.3
15°	1415.0	1409.3	1430.7	1448.6	1503.7	1561.0	1611.1	1637.5	1739.9	1837.9	1878.7
17.5°	1377.7	1377.1	1389.2	1421.4	1478.0	1525.9	1606.7	1608.2	1727.0	1854.4	1890.2
20°	1375.6	1374.9	1377.1	1412.8	1464.3	1523.1	1593.2	1606.1	1727.0	1843.0	1890.9
22.5°	1393.5	1382.0	1394.9	1417.8	1455.0	1528.0	1598.2	1626.8	1768.5	1899.5	1923.1
25°	1422.1	1425.0	1432.1	1440.0	1461.5	1539.5	1642.6	1666.2	1817.1	1948.2	1967.5
27.5°	1474.4	1472.9	1475.8	1480.1	1498.7	1550.2	1660.5	1721.3	1918.8	2034.8	2015.5
30°	1551.0	1545.9	1557.4	1572.4	1555.3	1584.6	1719.8	1765.7	2013.3	2122.1	2069.1
32.5°	1620.4	1638.9	1660.5	1666.9	1646.2	1651.9	1798.6	1845.1	2092.0	2229.4	2135.0
35°	1707.0	1722.0	1750.6	1770.6	1767.1	1750.0	1906.0	1967.5	2205.9	2308.1	2204.4
37.5°	1791.4	1809.3	1856.6	1916.0	1883.0	1875.2	2020.4	2071.3	2240.9	2350.4	2255.2
40°	1927.4	1926.7	2008.3	2039.1	2068.4	2054.8	2139.3	2156.4	2259.5	2341.1	2256.7
42.5°	2087.0	2077.0	2160.0	2208.0	2245.9	2247.3	2263.0	2257.3	2268.1	2293.8	2241.6
45°	2238.7	2260.2	2344.0	2429.8	2467.7	2472.0	2367.6	2356.8	2283.1	2280.3	2213.0
47.5°	2424.1	2429.1	2497.9	2610.9	2698.9	2668.9	2502.8	2479.2	2349.0	2371.1	2260.9
50°	2434.9	2472.0	2533.6	2666.7	2937.3	2929.4	2678.2	2633.8	2454.9	2500.0	2394.7
52.5°	2210.1	2201.5	2274.6	2492.1	2919.4	3188.5	2968.7	2862.8	2682.5	2648.1	2611.6
55°	1684.1	1704.1	1768.5	1988.2	2535.0	3192.1	3364.6	3278.0	2925.8	2867.1	2824.9
56°	1477.2	1480.1	1541.0	1741.3	2313.2	3078.3	3439.7	3369.6	3046.8	2957.3	2892.9
57.5°	1224.6	1208.1	1239.6	1349.1	1952.5	2837.8	3357.4	3426.1	3188.5	3054.7	2965.2
60°	964.0	960.5	947.6	967.7	1233.9	2137.8	2794.8	2949.5	3174.2	2963.0	2840.0
62.5°	787.3	769.3	795.2	823.8	857.4	1326.2	1963.9	2054.8	2520.1	2365.4	2133.5
65°	610.5	601.9	634.1	727.1	747.2	842.4	1118.6	1188.8	1488.0	1461.5	1286.8
67.5°	420.2	421.6	449.4	591.1	692.8	684.2	684.9	721.4	776.6	576.8	502.4
70°	266.3	265.5	280.6	380.7	557.5	563.3	534.6	523.9	496.7	300.6	318.5
72.5°	171.1	166.0	173.9	210.4	288.5	333.5	343.5	350.0	287.7	236.2	256.3
75°	96.6	91.6	88.7	98.1	113.8	131.7	144.6	148.9	166.8	179.0	189.6
77.5°	29.4	26.5	32.2	43.0	56.5	75.9	92.3	95.2	112.4	126.7	137.4
80°	12.9	14.3	20.0	28.6	40.1	53.7	65.1	69.4	80.9	91.6	94.4
82.5°	7.9	8.6	13.6	19.3	27.9	37.9	46.5	47.9	59.4	68.0	70.1
85°	2.9	3.6	7.1	11.4	17.9	24.3	24.3	26.5	24.3	24.3	26.5
87.5°	0.0	0.0	0.8	1.4	1.4	2.2	2.9	2.9	3.6	4.3	5.0
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°	1845.8	1845.8	1845.8	1845.8	1845.8	1845.8	1845.8	1845.8	1845.8	1845.8	1845.8
2.5°	1850.8	1847.3	1841.5	1820.8	1818.6	1812.2	1776.4	1770.6	1776.4	1759.2	1760.6
5°	1847.3	1858.0	1815.0	1794.3	1755.7	1727.8	1695.5	1679.1	1649.7	1631.1	1651.9
7.5°	1863.0	1858.7	1805.0	1760.0	1701.9	1631.1	1574.6	1542.4	1490.8	1476.5	1487.2
10°	1857.3	1834.4	1771.4	1711.9	1602.4	1540.2	1448.6	1359.8	1311.2	1286.1	1282.5
12.5°	1849.4	1843.0	1737.8	1635.4	1520.2	1389.2	1260.4	1176.6	1097.2	1062.9	1067.8
15°	1858.7	1804.3	1674.8	1545.3	1392.0	1220.3	1081.4	973.4	918.3	896.1	896.1
17.5°	1854.4	1785.7	1644.7	1444.3	1250.3	1047.0	894.7	829.5	806.6	806.6	813.1
20°	1856.6	1797.9	1583.9	1343.4	1082.9	881.8	770.9	747.2	757.2	760.8	764.4
22.5°	1868.7	1757.8	1524.5	1232.5	927.5	754.4	700.0	700.7	718.6	737.9	734.3
25°	1883.8	1742.0	1452.2	1122.2	808.8	692.1	674.9	672.8	686.3	696.3	697.8
27.5°	1870.9	1714.9	1378.5	984.8	711.4	650.6	647.0	648.4	652.7	672.8	666.3
30°	1913.1	1722.7	1286.1	869.6	657.7	637.0	632.7	630.6	637.0	642.7	637.7
32.5°	1965.3	1694.8	1217.4	758.7	631.3	627.0	618.4	615.5	619.1	613.3	616.2
35°	1988.2	1689.8	1127.9	679.2	610.5	606.9	601.9	601.2	601.9	596.9	592.6
37.5°	2001.2	1713.4	1025.6	642.7	597.6	601.2	589.7	588.3	575.4	578.3	580.5
40°	2023.3	1676.9	942.6	607.6	589.7	582.6	572.6	570.5	561.9	556.8	561.9
42.5°	1991.1	1666.2	861.0	592.6	578.3	570.5	563.3	551.1	548.2	544.0	541.1
45°	1965.3	1604.6	788.0	574.0	564.7	560.4	546.8	534.0	523.2	527.5	521.0
47.5°	1984.7	1583.2	715.7	558.3	546.1	541.1	527.5	517.5	506.7	501.7	500.3
50°	2062.0	1623.2	654.9	546.8	530.3	527.5	509.6	498.1	488.1	484.5	485.9
52.5°	2246.6	1732.7	613.3	523.2	515.3	502.4	492.4	478.1	471.6	460.2	467.3
55°	2480.6	1910.9	602.7	501.0	496.7	485.3	471.6	461.0	448.8	439.4	437.3
56°	2555.8	1996.1	594.0	492.4	485.3	478.8	461.0	454.5	435.1	433.0	431.6
57.5°	2616.6	2071.3	595.5	475.9	468.8	463.1	452.3	436.6	423.7	415.8	419.4
60°	2479.2	1938.8	568.3	450.9	449.4	438.7	423.7	416.5	400.8	391.5	389.4
62.5°	1843.0	1316.2	461.0	418.6	418.0	406.5	389.4	381.5	378.6	365.8	365.8
65°	1061.4	825.2	398.6	392.2	386.5	375.0	357.8	351.5	344.2	339.9	336.4
67.5°	453.0	428.0	362.1	361.5	355.0	340.7	323.5	313.4	304.2	295.6	299.9
70°	328.5	333.5	327.1	323.5	315.6	297.7	282.7	270.5	256.3	250.5	254.8
72.5°	260.5	271.2	280.6	281.3	272.0	251.2	234.7	218.3	202.5	194.7	198.2
75°	197.6	204.7	214.0	216.1	202.5	188.2	172.5	155.3	143.1	133.8	135.2
77.5°	142.5	141.0	149.6	148.2	141.7	131.7	117.4	101.6	88.1	79.5	80.1
80°	97.3	99.5	104.5	103.8	95.9	89.5	78.7	65.9	55.8	48.7	47.3
82.5°	68.0	71.6	75.9	72.3	65.9	59.4	51.6	42.2	34.3	28.6	27.2
85°	24.3	27.9	32.2	34.3	36.5	35.1	29.4	23.6	17.2	14.3	13.6
87.5°	5.0	5.7	6.5	6.5	6.5	5.7	5.0	5.0	4.3	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)