

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: STREETWORKS

Report Number: P481003

Luminaire Tested: **IFLD-S-SA3A-827-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481003
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-827-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

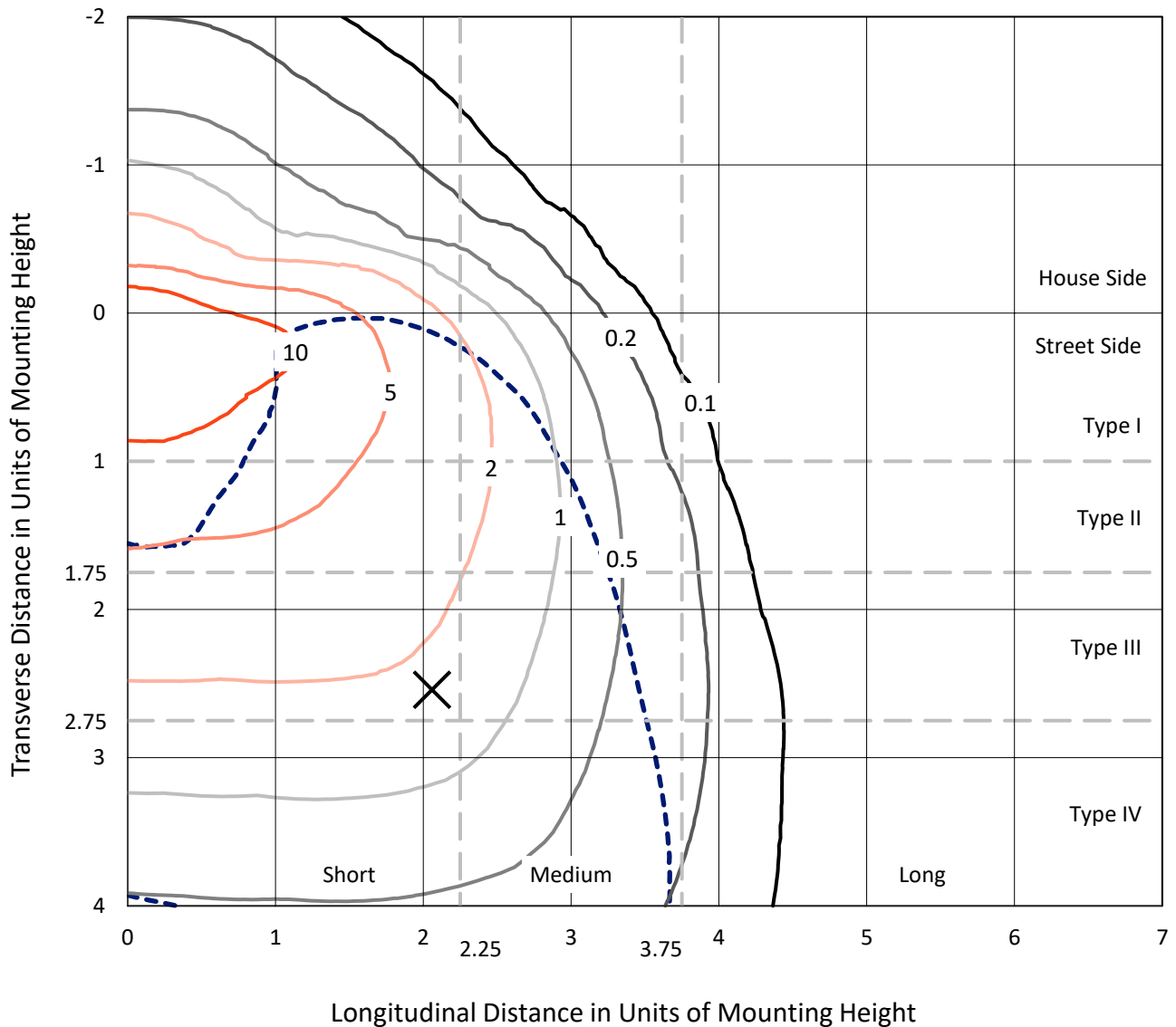
Lumens per Lamp: N/A
Luminaire Lumens: 9783 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 94.8
Input Voltage (V): 120
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

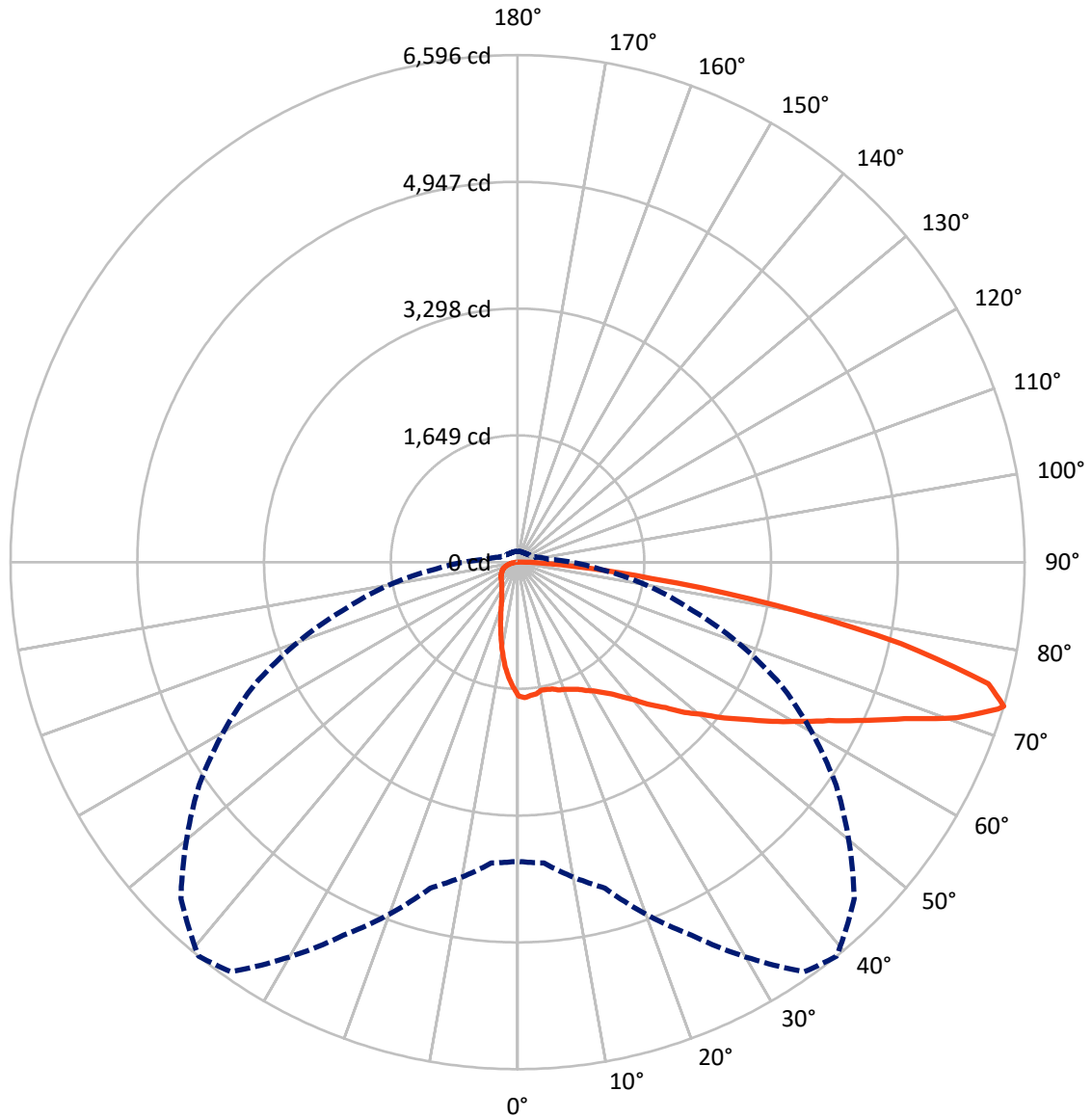
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1375.2	0.0	1375.2
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	8407.8	0.0	8407.8
	% Fixture	85.9	0.0	85.9
Total	Lumens	9783.0	0.0	9783.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.2	1.5
10°-20°	384.3	3.9
20°-30°	587.2	6.0
30°-40°	856.2	8.8
40°-50°	1293.8	13.2
50°-60°	1873.6	19.2
60°-70°	2380.4	24.3
70°-80°	1929.7	19.7
80°-90°	326.5	3.3
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°	9783.0	100.0
0°-180°	9783.0	100.0

Coefficient of Utilization



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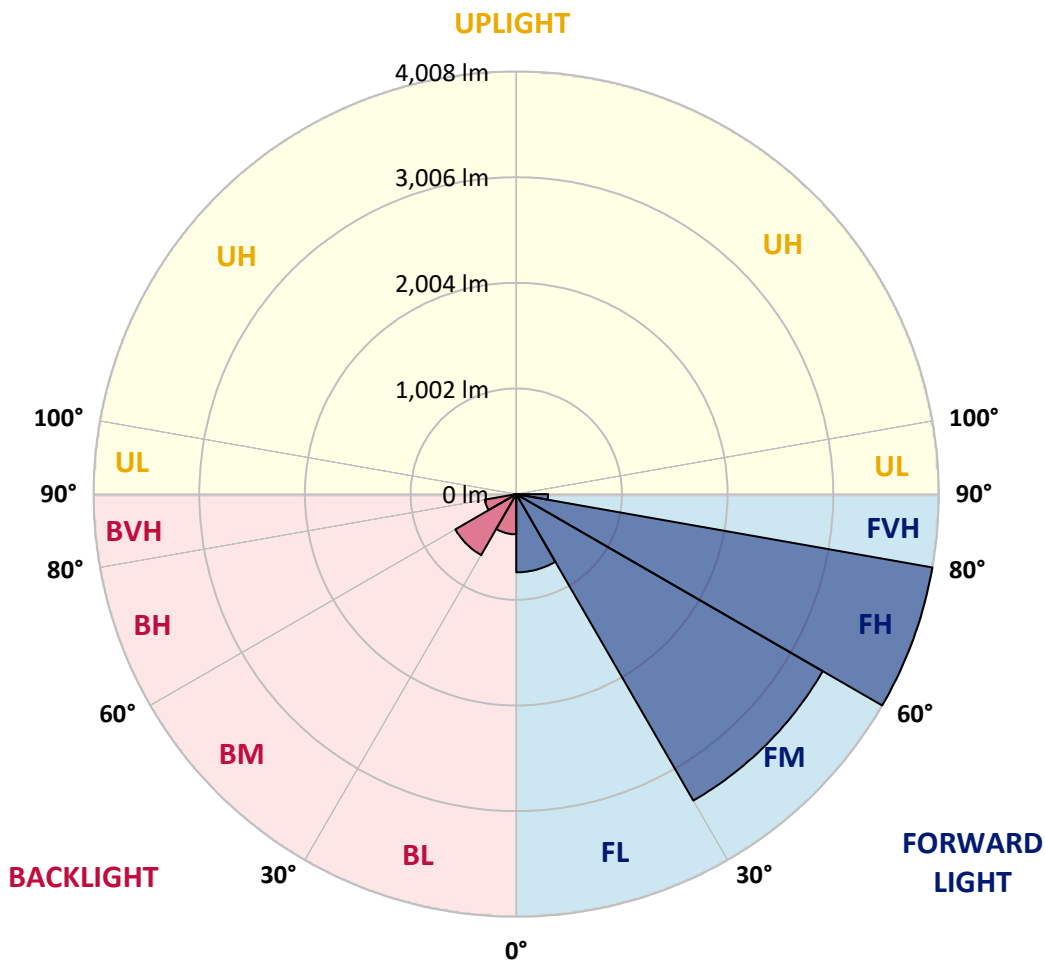
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	741.3	7.6			
FM (30°-60°)	3356.2	34.3			
FH (60°-80°)	4007.7	41.0			G2/5000
FVH (80°-90°)	302.5	3.1			G3/500
BL (0°-30°)	381.4	3.9	B1/500		
BM (30°-60°)	667.4	6.8	B1/1000		
BH (60°-80°)	302.5	3.1	B1/500		G1/500
BVH (80°-90°)	24.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1741.4	1741.4	1741.4	1741.4	1741.4	1741.4	1741.4	1741.4	1741.4	1741.4	1741.4
2.5°	1783.0	1764.4	1767.7	1761.1	1767.7	1765.5	1762.2	1745.8	1762.2	1745.8	1741.4
5°	1758.9	1758.9	1769.9	1753.5	1755.7	1744.7	1755.7	1743.6	1732.7	1705.3	1697.6
7.5°	1751.3	1750.2	1751.3	1728.3	1739.2	1732.7	1721.7	1708.6	1686.7	1669.2	1644.0
10°	1698.7	1709.7	1697.6	1704.2	1713.0	1693.3	1692.2	1688.9	1679.0	1656.1	1640.7
12.5°	1670.3	1688.9	1695.5	1690.0	1697.6	1699.8	1693.3	1688.9	1676.8	1661.5	1617.7
15°	1682.3	1660.4	1679.0	1715.2	1707.5	1713.0	1714.1	1709.7	1704.2	1675.8	1647.3
17.5°	1685.6	1672.5	1711.9	1719.5	1729.4	1749.1	1736.0	1734.9	1714.1	1694.4	1652.8
20°	1693.3	1687.8	1719.5	1760.0	1761.1	1764.4	1771.0	1754.6	1743.6	1709.7	1646.2
22.5°	1721.7	1740.3	1769.9	1787.4	1797.2	1799.4	1799.4	1766.6	1754.6	1727.2	1676.8
25°	1807.1	1787.4	1829.0	1849.8	1835.6	1832.3	1824.6	1795.1	1781.9	1757.8	1691.1
27.5°	1869.5	1868.4	1892.5	1920.9	1882.6	1890.3	1862.9	1854.2	1824.6	1811.5	1716.3
30°	1954.9	1978.9	1977.8	1986.6	1936.3	1945.0	1910.0	1893.6	1877.2	1884.8	1790.7
32.5°	2064.3	2055.6	2069.8	2063.2	2012.9	2020.5	1978.9	1953.8	1959.2	1982.2	1892.5
35°	2134.4	2125.6	2131.1	2131.1	2115.8	2107.0	2089.5	2056.7	2082.9	2125.6	2006.3
37.5°	2209.9	2220.8	2252.6	2246.0	2226.3	2226.3	2224.1	2201.1	2235.1	2340.1	2188.0
40°	2276.7	2306.2	2325.9	2339.1	2362.0	2362.0	2380.6	2367.5	2428.8	2597.4	2410.2
42.5°	2346.7	2347.8	2455.1	2464.9	2516.4	2538.3	2552.5	2563.4	2678.4	2866.6	2647.7
45°	2436.5	2441.9	2536.1	2611.6	2691.5	2699.2	2752.8	2788.9	2930.1	3161.1	2906.0
47.5°	2554.7	2548.1	2648.8	2769.2	2868.8	2921.4	2985.9	3025.3	3199.4	3480.7	3188.4
50°	2710.1	2690.4	2748.4	2937.8	3054.9	3112.9	3227.8	3293.5	3497.1	3786.0	3382.2
52.5°	2899.5	2866.6	2912.6	3119.5	3250.8	3367.9	3477.4	3550.7	3763.1	4022.5	3525.5
55°	3099.8	3031.9	3045.0	3312.1	3501.5	3612.0	3762.0	3838.6	4055.3	4234.8	3668.9
57.5°	3297.9	3255.2	3228.9	3497.1	3800.3	3906.4	4044.4	4144.0	4327.8	4423.1	3790.4
60°	3464.2	3453.3	3410.6	3783.9	4116.6	4207.4	4351.9	4413.2	4552.2	4597.1	3792.6
62.5°	3601.1	3563.9	3631.7	4014.8	4438.4	4541.3	4700.0	4705.5	4804.0	4705.5	3681.0
65°	3708.3	3710.5	3818.9	4293.9	4810.5	4962.7	5090.7	5076.5	5013.0	4640.9	3417.2
67.5°	3805.7	3847.3	4006.0	4600.4	5288.9	5432.2	5574.5	5386.3	5070.0	4338.8	2901.6
70°	3882.4	3924.0	4258.9	4973.6	5852.6	6062.7	6094.4	5508.9	4808.4	3675.5	2189.1
72.5°	3873.6	3949.1	4402.3	5271.3	6352.8	6534.5	6278.3	5164.1	4006.0	2562.3	1277.3
73°	3892.2	3929.4	4390.2	5354.5	6504.9	6595.8	6193.0	5055.7	3778.4	2298.6	1080.3
75°	3533.2	3659.1	4172.4	5218.8	6341.8	6325.4	5702.6	4212.9	2686.0	1207.3	523.2
77.5°	2613.8	2693.7	3288.0	4291.7	5205.7	5100.6	4301.6	2692.6	1275.1	447.7	282.4
80°	1277.3	1339.7	1742.5	2478.1	3404.0	3412.8	2669.6	1401.0	546.2	252.8	192.6
82.5°	638.1	675.3	837.3	1089.1	1674.7	1754.6	1354.0	796.8	338.2	143.4	109.5
85°	417.0	443.3	515.5	533.0	710.4	749.8	630.5	621.7	220.0	77.7	88.7
87.5°	276.9	281.3	316.3	269.3	284.6	273.6	304.3	391.8	64.6	32.8	24.1
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°	1741.4	1741.4	1741.4	1741.4	1741.4	1741.4	1741.4	1741.4	1741.4	1741.4	1741.4
2.5°	1736.0	1720.6	1704.2	1681.2	1664.8	1639.6	1616.6	1606.8	1604.6	1605.7	1594.8
5°	1691.1	1669.2	1636.4	1589.3	1561.9	1520.3	1485.3	1466.7	1447.0	1450.3	1441.5
7.5°	1628.7	1604.6	1554.3	1499.5	1431.7	1372.6	1339.7	1293.8	1267.5	1247.8	1258.7
10°	1609.0	1567.4	1491.9	1416.3	1311.3	1233.6	1158.0	1105.5	1069.4	1034.3	1049.7
12.5°	1599.1	1557.5	1452.5	1340.8	1205.1	1086.9	980.7	916.1	864.7	834.0	846.1
15°	1590.4	1538.9	1415.3	1257.6	1105.5	950.1	830.8	745.4	696.1	666.6	669.9
17.5°	1602.4	1529.1	1360.5	1176.6	996.0	829.7	697.2	608.6	558.2	539.6	535.2
20°	1590.4	1518.1	1306.9	1095.6	886.6	714.7	587.8	514.4	479.4	464.1	460.8
22.5°	1594.8	1491.9	1251.1	1005.9	784.8	618.4	514.4	458.6	431.3	423.6	425.8
25°	1615.6	1476.5	1195.2	907.4	684.1	547.3	467.4	424.7	405.0	397.3	399.5
27.5°	1630.9	1489.7	1144.9	814.3	598.7	483.8	428.0	399.5	386.4	380.9	379.8
30°	1669.2	1497.3	1095.6	731.2	528.7	442.2	400.6	377.6	368.9	365.6	364.5
32.5°	1726.1	1511.6	1038.7	654.5	477.2	402.8	378.7	359.0	356.8	353.5	354.6
35°	1819.1	1560.8	975.2	588.9	428.0	376.5	355.7	342.6	342.6	342.6	345.9
37.5°	1952.7	1629.8	918.3	526.5	396.2	353.5	336.0	331.6	329.5	332.7	334.9
40°	2124.5	1713.0	872.4	477.2	368.9	338.2	322.9	320.7	319.6	318.5	320.7
42.5°	2312.8	1819.1	833.0	438.9	349.2	321.8	310.9	308.7	304.3	306.5	309.8
45°	2499.9	1950.5	797.9	408.3	336.0	313.0	297.7	296.6	294.4	293.3	298.8
47.5°	2707.9	2079.6	787.0	389.7	326.2	299.9	289.0	287.9	281.3	280.2	284.6
50°	2869.9	2174.9	799.0	380.9	311.9	290.1	282.4	276.9	271.4	266.0	266.0
52.5°	2981.6	2240.5	807.8	374.3	304.3	276.9	267.1	264.9	259.4	253.9	251.7
55°	3082.2	2279.9	810.0	375.4	296.6	261.6	255.0	253.9	250.7	241.9	239.7
57.5°	3116.2	2263.5	766.2	365.6	292.2	251.7	243.0	245.2	240.8	233.1	232.0
60°	3112.9	2149.7	666.6	352.4	282.4	240.8	229.9	236.4	236.4	227.7	226.6
62.5°	2923.5	1887.0	545.1	327.3	271.4	229.9	217.8	227.7	230.9	225.5	224.4
65°	2530.6	1536.7	455.3	302.1	255.0	217.8	205.8	216.7	222.2	220.0	218.9
67.5°	2093.9	1175.5	378.7	269.3	234.2	201.4	191.5	199.2	202.5	203.6	204.7
70°	1479.8	782.6	316.3	233.1	205.8	183.9	172.9	174.0	172.9	176.2	176.2
72.5°	804.5	451.0	257.2	198.1	177.3	159.8	152.1	146.7	146.7	145.6	145.6
73°	688.5	405.0	245.2	192.6	169.7	155.4	146.7	142.3	142.3	141.2	140.1
75°	386.4	296.6	210.2	165.3	146.7	135.7	129.2	122.6	121.5	121.5	121.5
77.5°	253.9	230.9	167.5	132.4	118.2	108.4	106.2	99.6	99.6	99.6	98.5
80°	190.5	181.7	129.2	100.7	90.8	83.2	81.0	76.6	75.5	71.1	72.2
82.5°	127.0	143.4	94.1	71.1	61.3	56.9	56.9	55.8	52.5	47.1	47.1
85°	100.7	117.1	67.9	43.8	36.1	30.6	31.7	30.6	29.6	24.1	23.0
87.5°	18.6	47.1	19.7	12.0	8.8	5.5	5.5	3.3	2.2	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)