

Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P1208869

Luminaire Tested: UPW-SA2-070-750-U-T3R

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1208869
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-070-750-U-T3R
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9944 lumens
Efficiency: N/A
Efficacy: 150.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

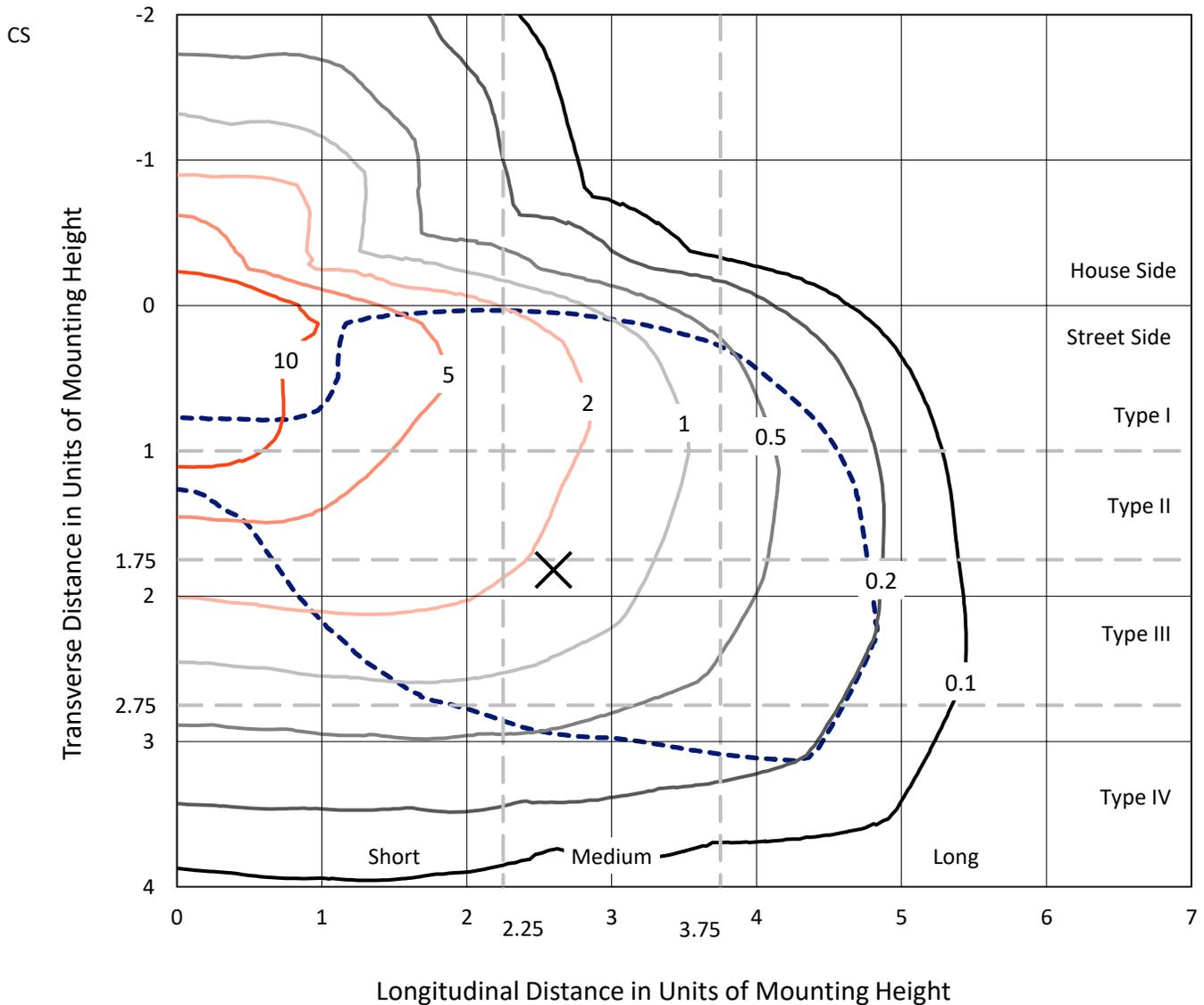
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

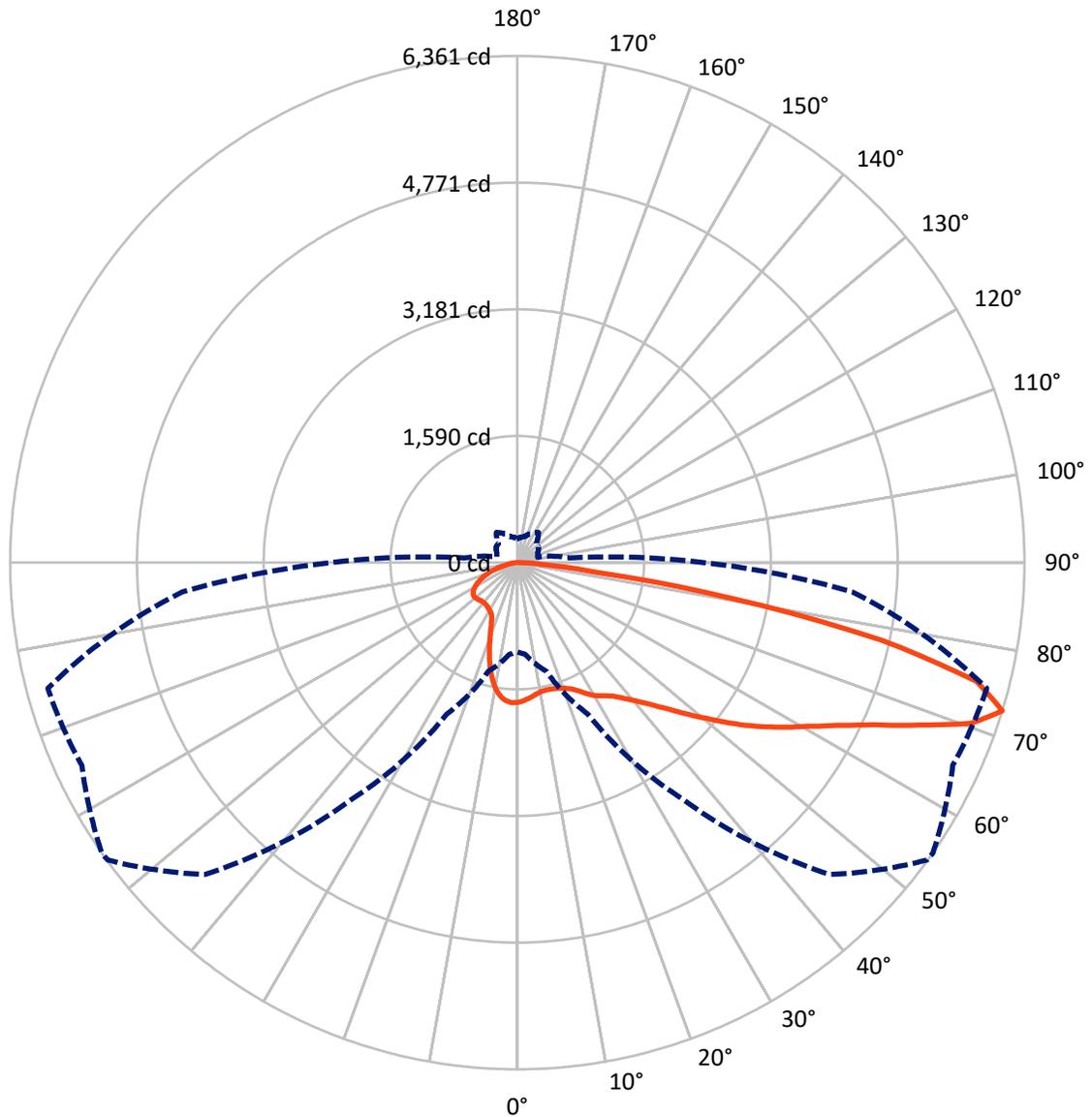


Based on 10 foot mounting height. Maximum calculated value = 17.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1848.3	0.0	1848.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	8095.7	0.0	8095.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	9944.0	0.0	9944.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.7	1.6
10°-20°	422.5	4.2
20°-30°	696.7	7.0
30°-40°	1030.5	10.4
40°-50°	1438.4	14.5
50°-60°	1872.9	18.8
60°-70°	2301.7	23.1
70°-80°	1804.2	18.1
80°-90°	218.3	2.2
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°	9944.0	100.0
0°-180°	9944.0	100.0



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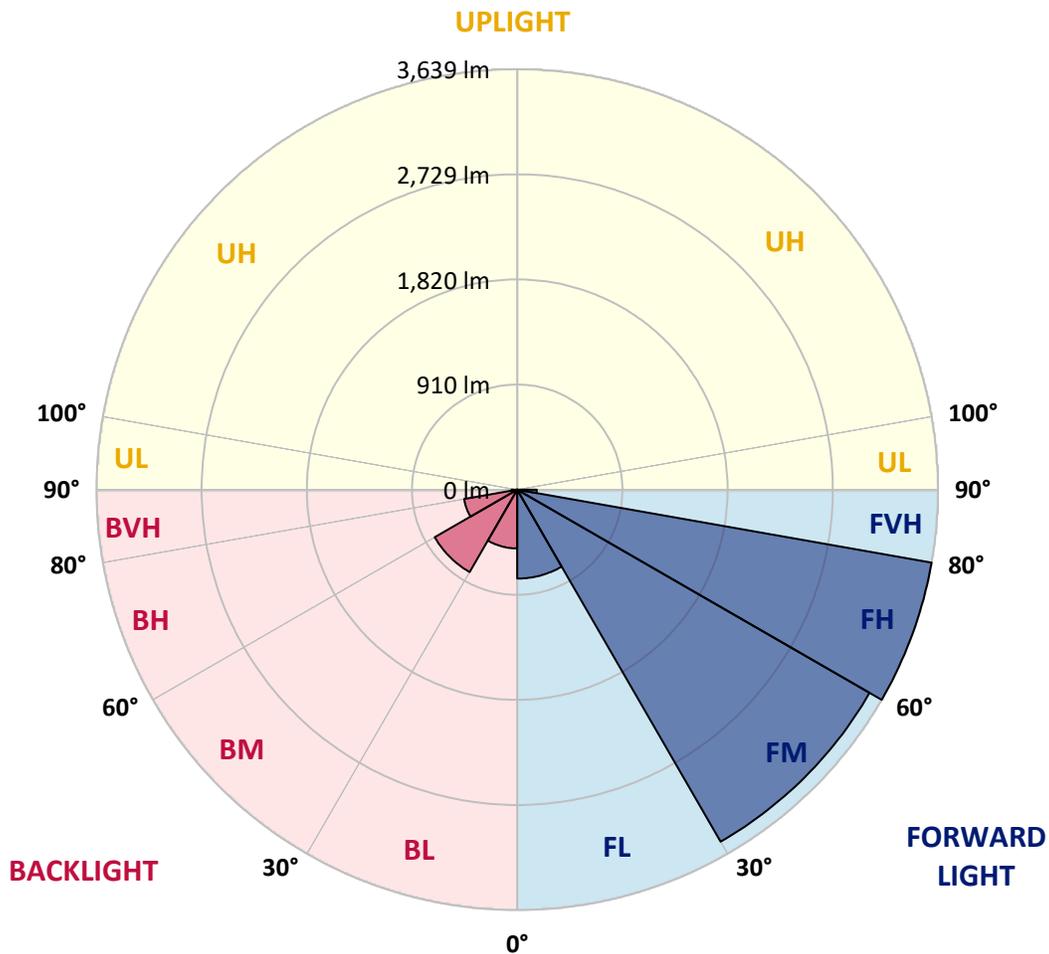
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	769.4	7.7			
FM	(30°-60°)	3518.4	35.4			
FH	(60°-80°)	3639.2	36.6			G2/5000
FVH	(80°-90°)	168.8	1.7			G2/225
BL	(0°-30°)	508.5	5.1	B2/1000		
BM	(30°-60°)	823.4	8.3	B1/1000		
BH	(60°-80°)	466.8	4.7	B1/500		G1/500
BVH	(80°-90°)	49.5	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1753.9	1753.9	1753.9	1753.9	1753.9	1753.9	1753.9	1753.9	1753.9	1753.9	1753.9
2.5°	1696.8	1692.8	1697.8	1704.9	1712.6	1723.0	1729.1	1731.7	1742.2	1746.2	1754.9
5°	1618.2	1616.2	1624.6	1636.7	1653.8	1678.0	1697.5	1701.2	1728.7	1748.2	1766.0
7.5°	1561.1	1561.1	1570.9	1585.3	1604.4	1637.0	1664.6	1669.6	1716.3	1758.3	1791.2
10°	1515.8	1517.5	1528.9	1546.0	1568.5	1603.1	1639.7	1645.4	1712.9	1781.8	1834.2
12.5°	1485.5	1489.6	1500.0	1515.4	1543.3	1585.3	1631.7	1639.4	1720.0	1815.4	1885.9
15°	1504.7	1511.4	1512.4	1518.8	1534.2	1579.9	1636.4	1644.4	1735.1	1849.6	1944.7
17.5°	1588.7	1591.0	1580.6	1567.2	1559.8	1589.0	1650.5	1658.9	1753.2	1883.6	2001.1
20°	1716.3	1714.9	1692.4	1656.2	1618.6	1623.3	1673.6	1682.4	1777.8	1913.4	2057.5
22.5°	1877.5	1872.8	1838.2	1771.4	1707.2	1680.4	1714.3	1721.7	1814.7	1956.1	2118.0
25°	2073.0	2062.6	2016.9	1927.2	1832.8	1763.6	1775.4	1782.5	1868.4	2003.8	2173.4
27.5°	2279.2	2268.8	2210.7	2102.2	1976.6	1868.8	1859.7	1865.8	1929.6	2039.1	2214.4
30°	2494.8	2483.8	2430.7	2309.1	2129.1	1977.6	1938.3	1940.7	1972.6	2058.2	2248.0
32.5°	2711.5	2701.1	2641.6	2500.5	2294.7	2094.5	1995.1	1992.0	1998.4	2078.0	2285.9
35°	2931.1	2935.2	2865.6	2709.5	2478.0	2224.5	2062.2	2055.9	2041.7	2118.7	2339.7
37.5°	3166.2	3163.5	3073.5	2910.3	2669.8	2365.5	2158.6	2157.6	2108.9	2195.6	2424.0
40°	3323.4	3325.1	3270.4	3115.9	2863.6	2521.7	2282.2	2279.9	2216.1	2310.8	2534.5
42.5°	3384.9	3396.0	3410.1	3312.0	3066.5	2702.7	2429.7	2426.3	2365.5	2476.0	2664.4
45°	3389.3	3411.4	3498.7	3486.3	3272.0	2910.0	2618.1	2608.7	2565.0	2695.7	2819.6
47.5°	3351.6	3374.5	3519.6	3590.1	3455.8	3128.6	2838.4	2831.0	2793.4	2970.4	2987.6
50°	3269.3	3291.2	3476.6	3640.8	3606.9	3338.9	3092.3	3072.9	3052.7	3287.8	3179.7
52.5°	3115.2	3157.2	3419.1	3652.9	3697.2	3525.6	3359.4	3346.6	3357.7	3622.7	3372.1
55°	2750.1	2797.1	3271.0	3642.8	3764.1	3682.5	3626.4	3625.7	3683.1	3974.0	3578.7
57.5°	2545.6	2578.8	2969.4	3625.7	3843.3	3838.3	3890.7	3897.1	4008.9	4356.6	3795.0
60°	2430.0	2464.9	2816.6	3562.2	3966.3	4039.8	4160.4	4173.2	4340.1	4780.1	4055.3
62.5°	2324.9	2363.2	2721.9	3432.9	4111.0	4328.0	4483.5	4494.9	4690.7	5215.4	4306.8
65°	2145.2	2188.5	2583.2	3347.9	4242.7	4703.8	4894.3	4902.0	5093.5	5671.5	4499.3
67.5°	1891.3	1930.9	2321.5	3160.2	4340.1	5160.3	5440.4	5444.8	5492.8	5993.6	4597.7
70°	1594.7	1609.8	1948.7	2772.6	4224.9	5587.2	6038.9	6039.9	5856.9	6199.8	4581.6
72.5°	1120.5	1156.1	1414.7	2098.8	3630.7	5535.1	6349.6	6361.0	6026.2	6095.7	4215.5
75°	687.2	724.8	887.4	1271.9	2303.4	4353.2	5866.6	5945.9	5708.8	5435.0	3443.7
77.5°	459.5	473.6	579.0	741.6	1043.5	2504.6	4510.4	4659.5	4742.5	3963.6	2202.3
80°	256.3	283.1	383.9	460.8	464.2	995.2	2704.4	2739.3	2638.6	1578.2	679.5
82.5°	135.7	150.5	256.3	270.7	253.2	333.2	1007.9	1009.0	843.0	423.2	201.9
85°	105.1	117.6	175.7	165.2	129.3	147.8	332.5	350.6	286.8	173.3	65.8
87.5°	52.4	65.2	119.2	104.8	50.7	42.3	118.9	127.0	113.2	67.8	23.8
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°	1753.9	1753.9	1753.9	1753.9	1753.9	1753.9	1753.9	1753.9	1753.9	1753.9	1753.9
2.5°	1758.3	1761.3	1765.0	1761.0	1759.6	1754.2	1745.2	1743.2	1738.5	1738.8	1741.5
5°	1773.7	1778.8	1776.7	1761.3	1742.8	1717.0	1690.1	1667.3	1652.1	1651.1	1650.1
7.5°	1803.3	1806.6	1790.9	1746.9	1695.1	1635.3	1578.9	1529.5	1499.7	1492.3	1490.6
10°	1849.6	1849.0	1805.6	1717.0	1613.9	1507.0	1416.4	1347.8	1307.9	1296.1	1293.1
12.5°	1901.4	1893.6	1810.7	1662.6	1499.0	1350.9	1236.0	1159.8	1118.1	1104.7	1101.3
15°	1954.8	1935.6	1798.2	1581.3	1357.9	1182.6	1062.0	991.5	969.0	961.6	960.2
17.5°	2004.5	1967.5	1762.6	1471.1	1197.0	1015.0	921.0	892.7	898.1	907.9	908.2
20°	2053.2	1989.0	1705.5	1332.1	1027.4	877.0	845.0	865.9	891.4	911.2	913.9
22.5°	2101.2	2004.1	1632.0	1171.5	875.6	799.4	821.9	859.8	889.0	910.5	914.2
25°	2141.5	2007.8	1530.6	1000.2	770.1	770.1	810.8	846.7	875.6	896.8	900.5
27.5°	2156.3	1983.0	1387.5	841.7	717.1	756.7	795.3	825.2	849.7	872.3	876.3
30°	2162.0	1937.0	1222.2	714.4	695.2	742.3	774.5	800.0	823.2	844.4	848.1
32.5°	2163.0	1881.5	1046.9	642.2	680.1	727.2	748.7	771.2	796.0	804.4	805.7
35°	2169.4	1816.0	862.2	605.2	666.0	713.0	730.2	746.3	706.0	709.0	711.7
37.5°	2187.9	1751.2	707.7	584.4	657.0	705.7	726.1	667.7	636.1	628.7	627.7
40°	2222.4	1682.0	593.1	567.6	653.6	709.4	700.3	623.4	569.0	528.3	522.3
42.5°	2270.5	1607.5	519.9	556.5	656.0	727.2	664.3	580.7	490.4	464.2	460.8
45°	2324.5	1529.2	480.3	548.8	664.0	740.9	657.0	524.0	453.8	433.9	432.3
47.5°	2376.9	1433.5	459.8	545.5	675.1	729.8	625.7	506.5	436.3	425.9	426.9
50°	2437.1	1347.2	447.4	541.8	684.8	722.8	590.5	497.4	429.6	442.3	455.8
52.5°	2487.8	1257.8	436.3	534.4	688.5	710.4	581.4	499.1	429.6	454.1	466.9
55°	2547.9	1190.3	423.5	518.9	681.5	675.1	575.0	509.2	434.6	419.2	420.5
57.5°	2625.5	1168.2	409.4	494.7	658.0	623.7	572.0	518.9	431.6	421.9	425.2
60°	2733.0	1191.7	403.7	463.2	621.4	583.4	572.3	513.9	410.4	393.6	394.0
62.5°	2835.4	1217.9	403.4	443.3	576.4	547.5	564.6	497.4	399.7	389.9	393.6
65°	2869.0	1191.3	387.3	421.2	525.6	504.5	550.5	480.0	391.6	376.8	376.2
67.5°	2824.0	1109.0	354.7	385.2	467.5	454.4	532.0	459.1	378.9	366.8	364.8
70°	2690.3	925.3	314.4	337.9	401.4	398.0	502.8	435.0	361.7	351.3	342.6
72.5°	2330.6	659.3	265.0	281.1	326.8	337.5	462.5	403.4	337.5	315.0	301.6
75°	1914.1	488.0	217.6	221.0	248.2	277.4	407.1	366.4	309.0	270.7	260.3
77.5°	1172.2	298.6	173.3	174.7	178.0	221.3	335.2	325.1	272.7	225.7	218.3
80°	379.5	162.9	125.3	131.7	121.6	162.2	259.3	276.8	234.1	188.8	180.7
82.5°	144.4	95.1	84.6	89.0	84.3	108.8	189.1	221.7	191.8	155.2	126.3
85°	69.9	53.7	50.0	56.1	52.1	55.8	120.9	163.2	145.4	101.1	94.0
87.5°	24.9	23.8	19.1	25.9	22.2	19.8	36.9	82.3	96.1	69.5	62.1
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)