

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: P1209004

Luminaire Tested: UPW-SA2-090-727-U-T3R

Issue Date: 11/4/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1209004  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 2/19/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: UPW-SA2-090-727-U-T3R  
Description: UNDERPASS WALL MOUNT LUMINAIRE  
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10198 lumens  
Efficiency: N/A  
Efficacy: 118.6 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): 86  
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

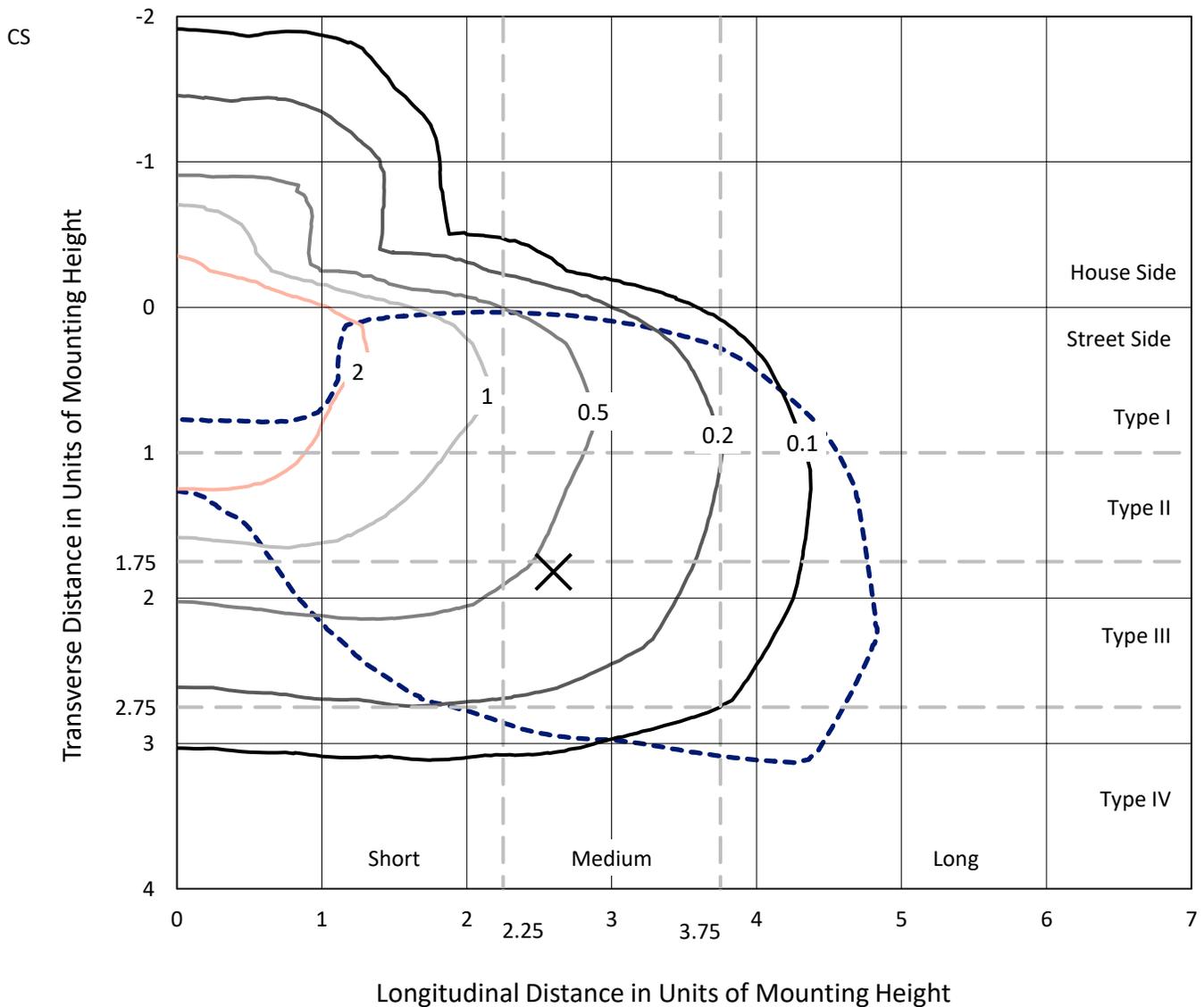


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

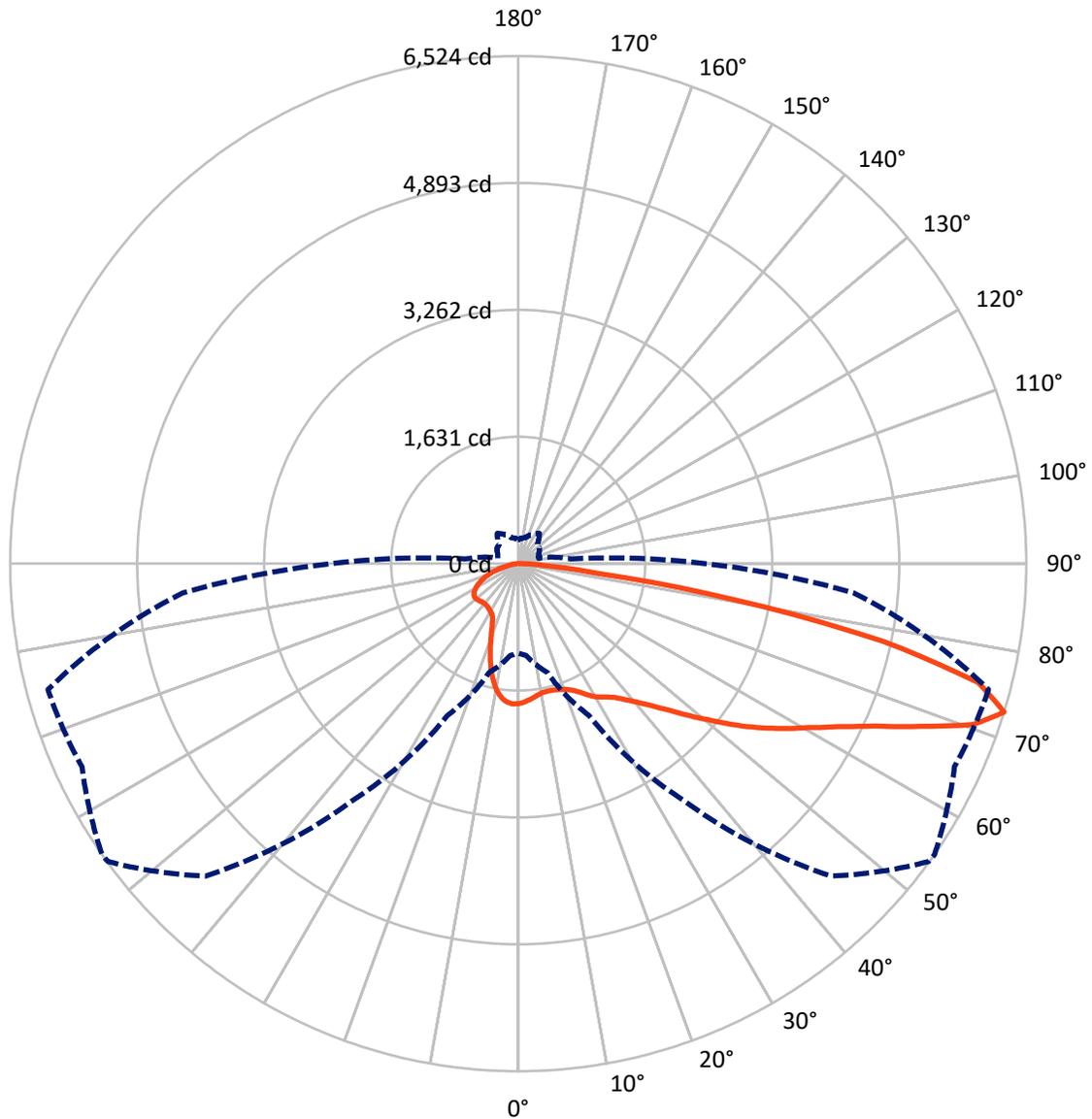


Based on 20 foot mounting height. Maximum calculated value = 4.5 fc  
 Type IV - Medium - N/A

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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
<b>House Side</b>	Lumens	1895.5	0.0	1895.5
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	8302.5	0.0	8302.5
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	10198.0	0.0	10198.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	162.8	1.6
10°-20°	433.3	4.2
20°-30°	714.5	7.0
30°-40°	1056.9	10.4
40°-50°	1475.2	14.5
50°-60°	1920.7	18.8
60°-70°	2360.5	23.1
70°-80°	1850.3	18.1
80°-90°	223.9	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°	10198.0	100.0
0°-180°	10198.0	100.0

**Coefficient of Utilization**



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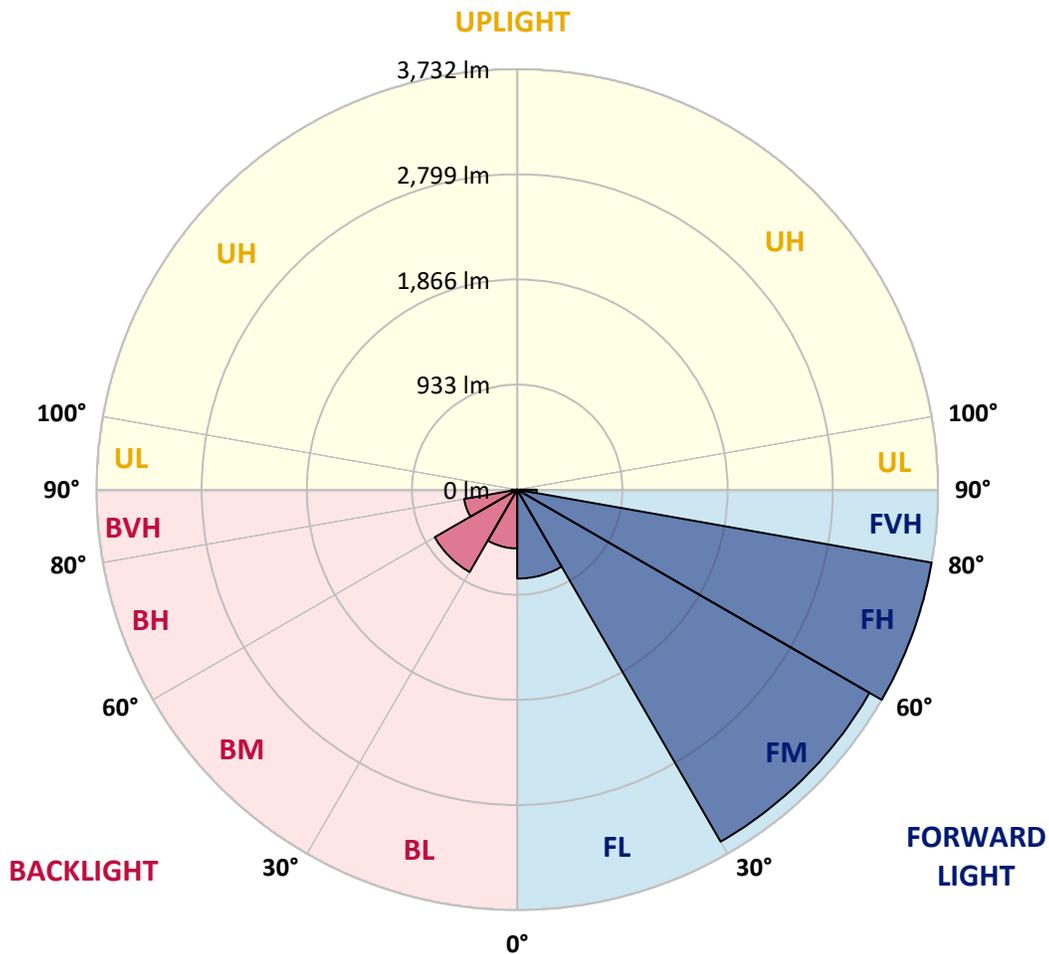
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	789.0	7.7			
FM	(30°-60°)	3608.3	35.4			
FH	(60°-80°)	3732.1	36.6			G2/5000
FVH	(80°-90°)	173.1	1.7			G2/225
BL	(0°-30°)	521.5	5.1	B2/1000		
BM	(30°-60°)	844.5	8.3	B1/1000		
BH	(60°-80°)	478.7	4.7	B1/500		G1/500
BVH	(80°-90°)	50.8	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°	1798.7	1798.7	1798.7	1798.7	1798.7	1798.7	1798.7	1798.7	1798.7	1798.7	1798.7
2.5°	1740.2	1736.0	1741.2	1748.4	1756.3	1767.0	1773.2	1776.0	1786.7	1790.8	1799.7
5°	1659.6	1657.5	1666.1	1678.5	1696.1	1720.9	1740.8	1744.6	1772.9	1792.9	1811.1
7.5°	1601.0	1601.0	1611.0	1625.8	1645.4	1678.8	1707.1	1712.3	1760.1	1803.2	1836.9
10°	1554.5	1556.2	1567.9	1585.5	1608.6	1644.1	1681.6	1687.5	1756.7	1827.3	1881.0
12.5°	1523.5	1527.6	1538.3	1554.1	1582.7	1625.8	1673.3	1681.3	1763.9	1861.7	1934.1
15°	1543.1	1550.0	1551.0	1557.6	1573.4	1620.3	1678.2	1686.4	1779.4	1896.9	1994.4
17.5°	1629.2	1631.7	1621.0	1607.2	1599.6	1629.6	1692.6	1701.2	1798.0	1931.7	2052.2
20°	1760.1	1758.8	1735.7	1698.5	1659.9	1664.7	1716.4	1725.3	1823.2	1962.3	2110.1
22.5°	1925.5	1920.6	1885.2	1816.6	1750.8	1723.3	1758.1	1765.6	1861.1	2006.1	2172.1
25°	2125.9	2115.3	2068.4	1976.4	1879.7	1808.7	1820.8	1828.0	1916.2	2055.0	2228.9
27.5°	2337.4	2326.7	2267.2	2155.9	2027.1	1916.5	1907.2	1913.4	1978.9	2091.1	2270.9
30°	2558.6	2547.2	2492.8	2368.1	2183.5	2028.1	1987.8	1990.2	2022.9	2110.8	2305.4
32.5°	2780.7	2770.1	2709.1	2564.4	2353.3	2148.0	2046.0	2042.9	2049.5	2131.1	2344.3
35°	3006.0	3010.1	2938.8	2778.7	2541.3	2281.3	2114.9	2108.4	2093.9	2172.8	2399.4
37.5°	3247.1	3244.4	3152.0	2984.6	2738.0	2425.9	2213.8	2212.7	2162.8	2251.7	2485.9
40°	3408.3	3410.0	3353.9	3195.4	2936.8	2586.1	2340.5	2338.1	2272.7	2369.8	2599.2
42.5°	3471.3	3482.7	3497.2	3396.6	3144.8	2771.8	2491.7	2488.3	2425.9	2539.3	2732.5
45°	3475.8	3498.6	3588.1	3575.4	3355.6	2984.3	2685.0	2675.3	2630.5	2764.5	2891.6
47.5°	3437.2	3460.7	3609.5	3681.8	3544.0	3208.5	2910.9	2903.4	2864.8	3046.3	3063.9
50°	3352.9	3375.2	3565.4	3733.8	3699.0	3424.2	3171.3	3151.4	3130.7	3371.8	3260.9
52.5°	3194.8	3237.8	3506.5	3746.2	3791.7	3615.7	3445.2	3432.1	3443.4	3715.2	3458.3
55°	2820.3	2868.6	3354.6	3735.9	3860.2	3776.5	3719.0	3718.3	3777.2	4075.5	3670.1
57.5°	2610.6	2644.7	3045.3	3718.3	3941.5	3936.4	3990.1	3996.6	4111.3	4467.8	3891.9
60°	2492.1	2527.9	2888.5	3653.2	4067.6	4143.0	4266.7	4279.8	4451.0	4902.2	4158.9
62.5°	2384.3	2423.5	2791.4	3520.6	4216.0	4438.6	4598.0	4609.7	4810.6	5348.6	4416.9
65°	2200.0	2244.4	2649.2	3433.5	4351.1	4824.0	5019.3	5027.2	5223.6	5816.3	4614.2
67.5°	1939.6	1980.2	2380.8	3240.9	4451.0	5292.1	5579.4	5583.8	5633.1	6146.7	4715.1
70°	1635.4	1650.9	1998.5	2843.4	4332.8	5729.9	6193.2	6194.2	6006.5	6358.2	4698.6
72.5°	1149.1	1185.6	1450.8	2152.5	3723.5	5676.5	6511.8	6523.5	6180.1	6251.4	4323.2
75°	704.7	743.3	910.0	1304.4	2362.2	4464.4	6016.5	6097.8	5854.6	5573.9	3531.6
77.5°	471.2	485.7	593.8	760.5	1070.2	2568.5	4625.6	4778.5	4863.6	4064.8	2258.5
80°	262.8	290.4	393.7	472.6	476.0	1020.6	2773.5	2809.3	2706.0	1618.6	696.8
82.5°	139.2	154.3	262.8	277.6	259.7	341.7	1033.7	1034.7	864.6	434.0	207.0
85°	107.8	120.6	180.1	169.5	132.6	151.6	341.0	359.6	294.2	177.7	67.5
87.5°	53.7	66.8	122.3	107.5	52.0	43.4	121.9	130.2	116.1	69.6	24.5
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°	1798.7	1798.7	1798.7	1798.7	1798.7	1798.7	1798.7	1798.7	1798.7	1798.7	1798.7
2.5°	1803.2	1806.3	1810.1	1805.9	1804.6	1799.1	1789.8	1787.7	1782.9	1783.2	1786.0
5°	1819.0	1824.2	1822.1	1806.3	1787.3	1760.8	1733.3	1709.8	1694.3	1693.3	1692.3
7.5°	1849.3	1852.8	1836.6	1791.5	1738.4	1677.1	1619.3	1568.6	1538.0	1530.4	1528.7
10°	1896.9	1896.2	1851.8	1760.8	1655.1	1545.5	1452.5	1382.3	1341.3	1329.2	1326.1
12.5°	1949.9	1942.0	1856.9	1705.0	1537.3	1385.4	1267.6	1189.4	1146.7	1132.9	1129.4
15°	2004.7	1985.1	1844.2	1621.7	1392.6	1212.8	1089.1	1016.8	993.7	986.2	984.8
17.5°	2055.7	2017.8	1807.7	1508.7	1227.6	1040.9	944.5	915.5	921.1	931.0	931.4
20°	2105.6	2039.8	1749.1	1366.1	1053.7	899.4	866.6	888.0	914.2	934.5	937.2
22.5°	2154.9	2055.3	1673.7	1201.4	898.0	819.8	842.9	881.8	911.8	933.8	937.6
25°	2196.2	2059.1	1569.6	1025.8	789.8	789.8	831.5	868.4	898.0	919.7	923.5
27.5°	2211.4	2033.6	1422.9	863.2	735.4	776.0	815.7	846.3	871.5	894.5	898.7
30°	2217.2	1986.4	1253.4	732.6	713.0	761.2	794.3	820.5	844.2	865.9	869.7
32.5°	2218.2	1929.6	1073.6	658.6	697.5	745.7	767.8	790.9	816.3	825.0	826.3
35°	2224.8	1862.4	884.2	620.7	683.0	731.3	748.8	765.4	724.0	727.1	729.9
37.5°	2243.7	1796.0	725.8	599.3	673.7	723.7	744.7	684.8	652.4	644.8	643.8
40°	2279.2	1725.0	608.3	582.1	670.3	727.5	718.2	639.3	583.5	541.8	535.6
42.5°	2328.5	1648.5	533.2	570.8	672.7	745.7	681.3	595.6	502.9	476.0	472.6
45°	2383.9	1568.3	492.6	562.8	681.0	759.9	673.7	537.3	465.3	445.0	443.3
47.5°	2437.7	1470.1	471.5	559.4	692.3	748.5	641.7	519.4	447.4	436.8	437.8
50°	2499.3	1381.6	458.8	555.6	702.3	741.3	605.5	510.1	440.5	453.6	467.4
52.5°	2551.3	1290.0	447.4	548.0	706.1	728.5	596.2	511.8	440.5	465.7	478.8
55°	2613.0	1220.7	434.3	532.2	698.9	692.3	589.7	522.2	445.7	429.9	431.2
57.5°	2692.6	1198.0	419.9	507.4	674.8	639.6	586.6	532.2	442.6	432.6	436.1
60°	2802.8	1222.1	414.0	475.0	637.2	598.3	586.9	527.0	420.9	403.7	404.0
62.5°	2907.8	1249.0	413.7	454.7	591.1	561.5	579.0	510.1	409.9	399.9	403.7
65°	2942.3	1221.8	397.1	431.9	539.1	517.4	564.6	492.2	401.6	386.5	385.8
67.5°	2896.1	1137.4	363.7	395.1	479.5	466.0	545.6	470.9	388.5	376.1	374.1
70°	2759.0	949.0	322.4	346.5	411.6	408.2	515.6	446.1	371.0	360.3	351.3
72.5°	2390.1	676.2	271.8	288.3	335.1	346.2	474.3	413.7	346.2	323.1	309.3
75°	1963.0	500.5	223.2	226.6	254.5	284.5	417.5	375.8	316.9	277.6	266.9
77.5°	1202.1	306.2	177.7	179.1	182.6	227.0	343.8	333.4	279.7	231.5	223.9
80°	389.2	167.1	128.5	135.0	124.7	166.4	265.9	283.8	240.1	193.6	185.3
82.5°	148.1	97.5	86.8	91.3	86.5	111.6	193.9	227.3	196.7	159.1	129.5
85°	71.6	55.1	51.3	57.5	53.4	57.2	124.0	167.4	149.1	103.7	96.4
87.5°	25.5	24.5	19.6	26.5	22.7	20.3	37.9	84.4	98.5	71.3	63.7
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)