

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: P1209160

Luminaire Tested: UPW-SA2-090-827-U-T2

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209160
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-090-827-U-T2
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8603 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

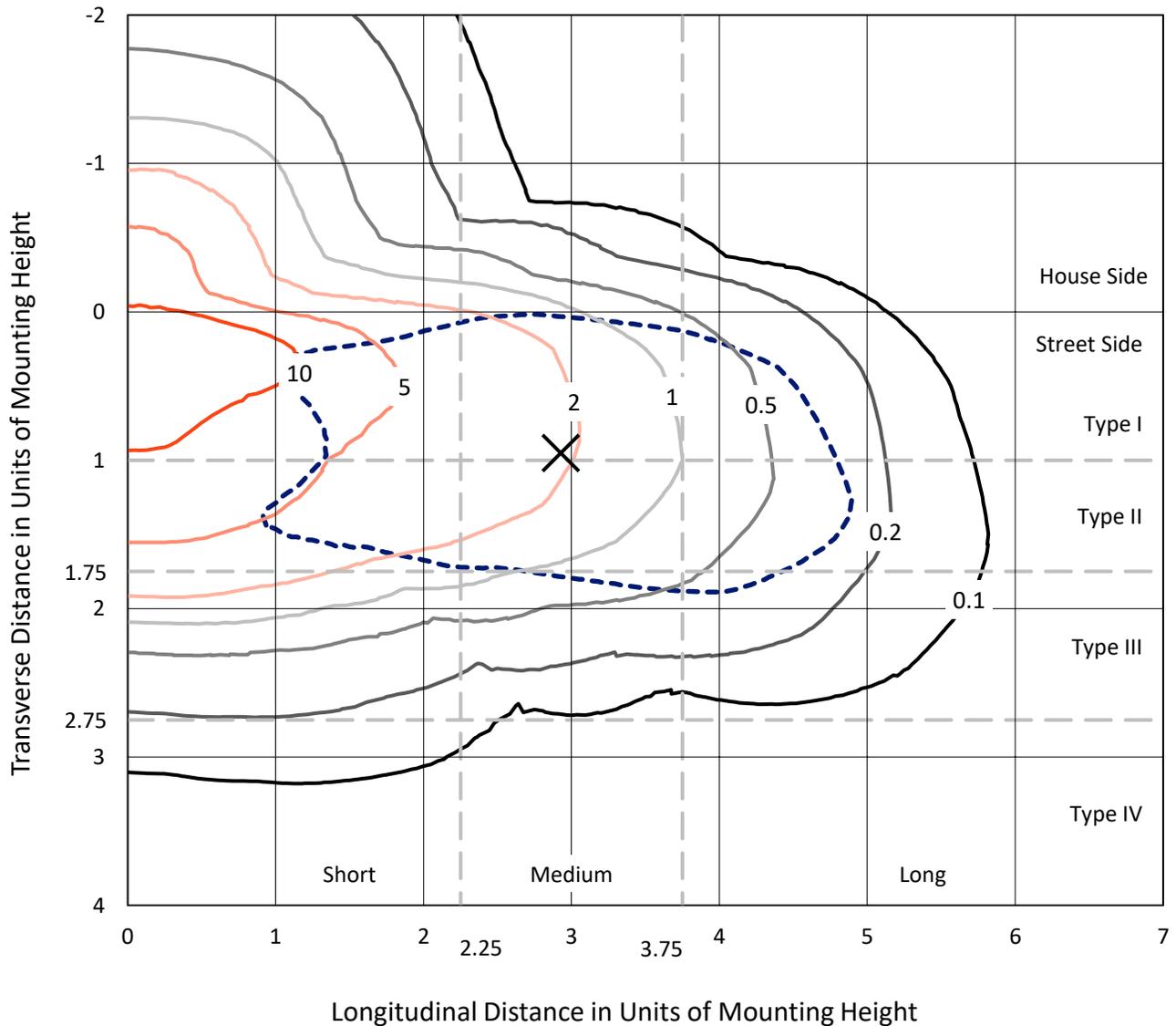
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

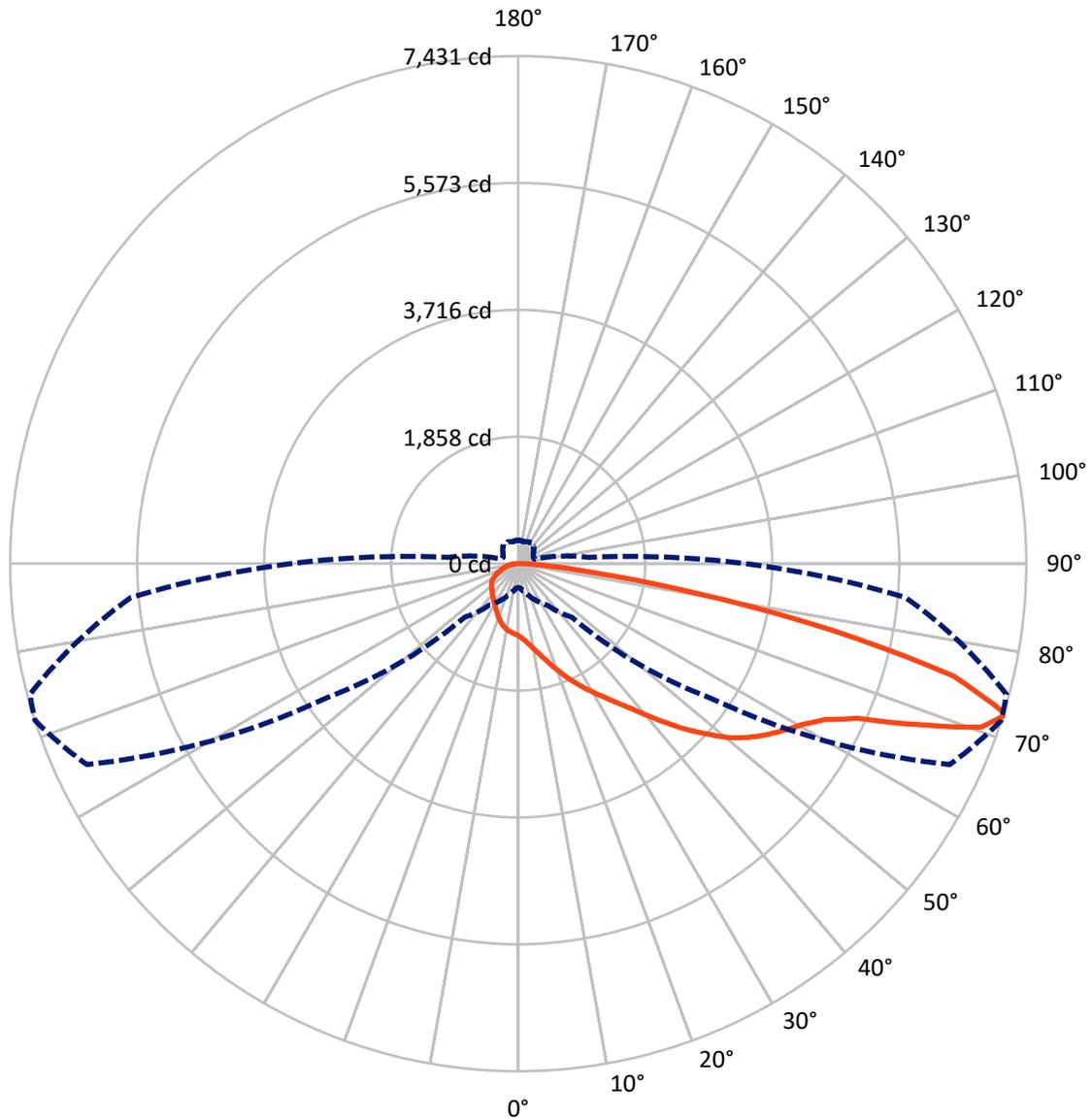
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1595.9	0.0	1595.9
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	7007.1	0.0	7007.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	8603.0	0.0	8603.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.1	1.2
10°-20°	342.7	4.0
20°-30°	600.5	7.0
30°-40°	890.4	10.4
40°-50°	1302.3	15.1
50°-60°	1792.0	20.8
60°-70°	1995.0	23.2
70°-80°	1351.8	15.7
80°-90°	222.2	2.6
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°	8603.0	100.0
0°-180°	8603.0	100.0



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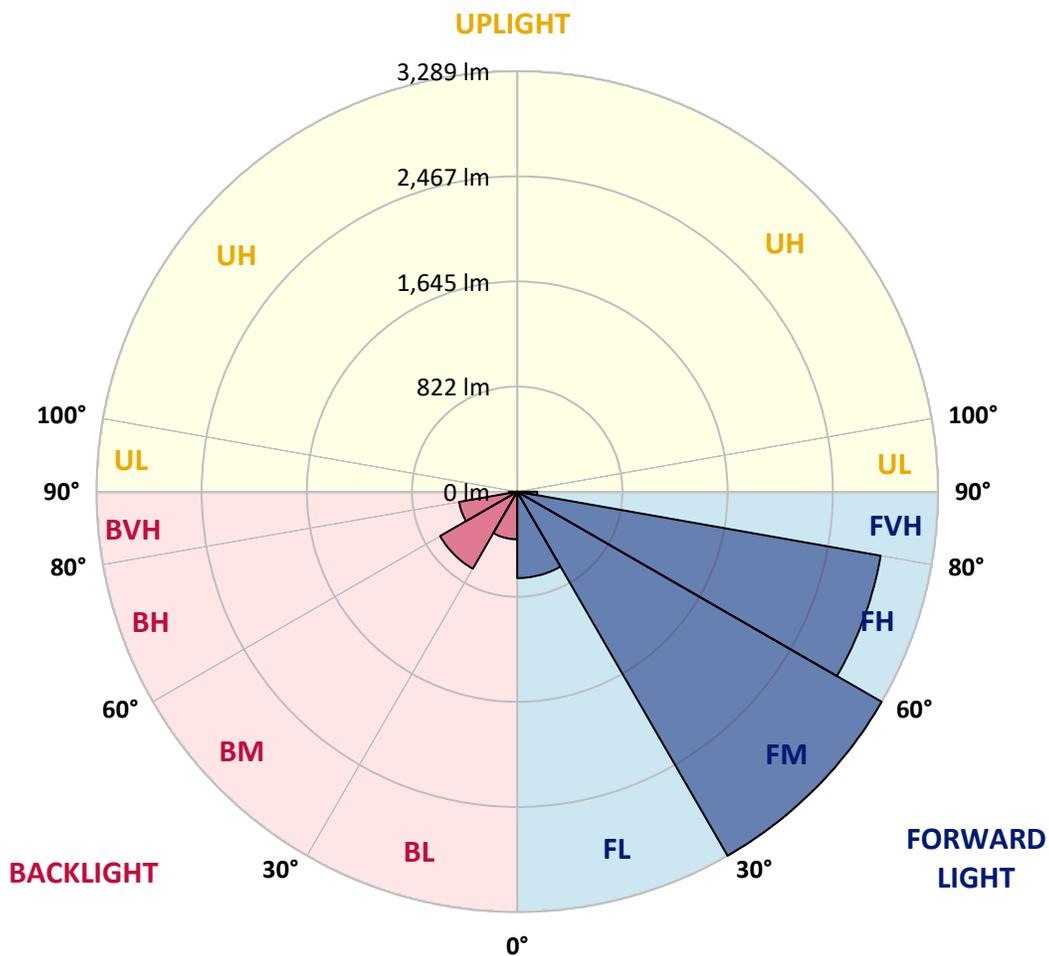
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	676.2	7.9			
FM (30°-60°)	3289.0	38.2			
FH (60°-80°)	2885.1	33.5			G2/5000
FVH (80°-90°)	156.7	1.8			G2/225
BL (0°-30°)	373.1	4.3	B1/500		
BM (30°-60°)	695.7	8.1	B1/1000		
BH (60°-80°)	461.7	5.4	B1/500		G1/500
BVH (80°-90°)	65.5	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4
2.5°	1169.2	1167.4	1161.2	1161.2	1149.3	1139.3	1120.3	1107.6	1092.5	1087.1	1069.4
5°	1282.3	1282.9	1275.2	1269.9	1252.4	1231.1	1198.8	1169.5	1140.2	1128.3	1091.9
7.5°	1377.4	1376.2	1374.2	1369.7	1353.4	1331.5	1288.0	1244.4	1201.2	1183.4	1120.6
10°	1438.4	1441.1	1442.9	1445.0	1438.1	1422.4	1381.3	1328.2	1271.7	1247.4	1155.0
12.5°	1469.3	1474.0	1482.3	1496.5	1507.8	1506.0	1476.1	1419.8	1352.5	1322.0	1197.9
15°	1487.3	1493.5	1506.6	1532.0	1563.7	1581.8	1573.8	1522.9	1447.9	1410.3	1250.3
17.5°	1498.6	1503.6	1523.8	1557.8	1604.9	1652.9	1673.9	1631.3	1555.7	1512.8	1310.5
20°	1506.3	1510.1	1535.3	1575.3	1636.3	1712.7	1771.4	1760.7	1674.5	1618.8	1373.3
22.5°	1523.5	1526.7	1550.7	1591.0	1658.5	1757.2	1865.3	1881.3	1799.8	1736.7	1440.5
25°	1571.4	1571.4	1591.6	1619.7	1683.1	1795.7	1944.7	2015.5	1927.8	1854.3	1502.7
27.5°	1663.0	1662.1	1669.5	1679.3	1727.3	1834.8	2015.5	2134.0	2060.5	1980.2	1563.2
30°	1771.4	1777.3	1778.2	1773.5	1796.0	1883.7	2080.9	2259.0	2194.1	2107.6	1625.1
32.5°	1910.9	1914.8	1910.3	1894.6	1891.4	1953.0	2145.2	2389.9	2338.7	2240.6	1681.6
35°	2088.1	2080.6	2066.7	2034.7	2004.2	2045.7	2218.7	2520.8	2501.0	2401.5	1759.5
37.5°	2277.9	2278.2	2261.0	2188.5	2146.4	2164.2	2320.0	2669.2	2697.4	2592.8	1859.4
40°	2430.2	2438.2	2448.8	2353.5	2299.0	2323.5	2448.8	2841.3	2929.6	2819.7	1989.4
42.5°	2536.5	2545.7	2575.9	2516.1	2459.5	2505.1	2600.5	3025.0	3190.3	3081.6	2141.7
45°	2649.1	2654.1	2675.5	2649.7	2613.5	2716.3	2771.4	3215.2	3466.1	3360.6	2312.0
47.5°	2767.6	2772.9	2794.8	2777.7	2758.7	2913.6	2949.8	3394.4	3730.3	3667.2	2493.9
50°	2913.9	2917.5	2938.2	2907.1	2913.0	3062.3	3109.1	3558.8	4007.3	3942.7	2676.3
52.5°	3113.6	3114.5	3143.2	3115.0	3087.2	3171.3	3246.3	3713.7	4224.4	4193.9	2858.8
55°	3270.0	3279.4	3373.6	3367.7	3351.7	3270.3	3360.9	3861.2	4418.1	4432.6	3052.5
57.5°	3170.1	3207.2	3397.9	3532.4	3663.4	3516.4	3515.8	4027.4	4598.2	4666.9	3265.5
60°	2776.5	2826.8	3107.9	3406.2	3815.9	3944.8	3837.5	4230.3	4780.1	4899.2	3532.4
62.5°	1982.9	2065.8	2446.8	2923.1	3606.8	4228.5	4492.2	4552.3	5027.4	5168.1	3879.3
65°	1002.4	1065.2	1384.5	1958.3	2881.6	4043.1	5203.7	5257.3	5457.3	5582.3	4413.4
67.5°	609.0	632.7	788.5	1089.2	1766.7	3149.4	5435.9	6432.4	6289.0	6355.4	5175.0
70°	448.8	466.3	563.4	723.4	1016.0	1848.1	4723.2	7271.0	7176.8	7169.4	5737.8
72°	349.5	362.3	448.2	584.4	742.9	1108.8	3423.4	6961.5	7431.0	7393.6	5686.2
72.5°	331.5	342.7	420.9	550.1	702.0	1005.1	3078.0	6752.6	7412.6	7395.7	5619.6
75°	261.0	269.0	311.6	425.4	549.5	570.2	1686.7	5233.0	6575.8	6849.2	5054.4
77.5°	215.9	217.1	239.6	309.5	428.3	403.2	828.5	3630.8	4708.7	5009.4	3580.4
80°	176.0	177.4	188.1	217.1	324.1	298.3	393.4	2087.8	2636.4	2639.6	1702.7
82.5°	140.1	140.4	152.3	158.8	232.8	213.3	225.4	980.2	1152.0	1108.2	612.0
85°	98.6	96.6	148.7	130.3	152.3	136.9	124.4	388.0	476.3	455.6	191.7
87.5°	32.9	34.1	66.1	84.4	88.9	77.6	55.4	148.7	179.8	178.3	60.7
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°	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4
2.5°	1063.7	1054.2	1040.3	1024.9	1012.8	1000.3	991.2	986.4	981.1	976.6	982.0
5°	1075.0	1057.2	1027.6	998.6	977.2	958.3	944.6	937.5	931.0	926.6	927.2
7.5°	1093.3	1064.6	1014.8	972.5	942.9	922.4	908.5	903.8	899.6	898.4	899.9
10°	1112.9	1070.5	998.0	941.7	907.9	891.0	884.8	888.1	891.0	893.7	896.7
12.5°	1135.1	1075.9	973.4	905.5	876.8	870.3	876.5	890.7	901.1	907.3	911.2
15°	1164.1	1080.6	944.9	869.4	850.2	857.6	878.6	903.2	921.2	932.8	934.6
17.5°	1190.8	1080.3	908.5	833.0	828.5	850.2	881.8	916.5	940.8	957.1	960.3
20°	1218.4	1072.3	866.1	797.4	806.6	842.2	883.3	925.1	954.4	973.4	977.8
22.5°	1244.1	1058.4	819.6	765.1	788.2	831.5	877.7	920.1	949.4	964.8	969.5
25°	1261.6	1034.1	772.5	737.9	771.9	818.5	859.3	893.4	915.3	923.0	924.2
27.5°	1270.5	1002.4	728.1	714.2	755.1	797.1	825.3	842.2	848.4	847.8	846.6
30°	1271.7	960.6	689.9	694.9	735.5	765.7	779.1	775.8	767.8	754.2	755.4
32.5°	1267.8	913.5	657.9	676.6	710.6	727.5	728.1	712.4	691.1	669.5	663.5
35°	1269.0	867.3	629.8	655.8	680.4	687.8	681.0	657.9	628.9	601.0	595.1
37.5°	1282.0	827.0	605.5	631.8	646.9	648.7	638.9	614.7	593.3	566.1	563.7
40°	1313.1	798.3	582.4	604.9	613.5	614.4	600.4	583.3	585.0	570.5	570.2
42.5°	1369.1	785.9	561.9	576.7	582.1	583.8	573.2	562.2	577.6	568.1	564.9
45°	1441.4	788.8	544.7	549.2	559.0	567.3	560.7	547.4	553.3	512.2	498.5
47.5°	1524.9	807.8	531.1	525.5	542.4	558.1	548.0	527.9	506.8	466.0	458.3
50°	1622.7	837.1	518.7	502.1	524.3	545.6	535.6	506.8	475.1	455.3	452.6
52.5°	1724.6	873.0	506.2	476.3	501.5	536.2	531.1	502.1	463.0	443.4	439.9
55°	1840.1	909.1	490.5	446.4	476.9	531.7	529.0	484.9	453.8	442.8	440.2
57.5°	1983.8	950.3	469.8	415.3	453.8	515.7	507.4	474.5	444.3	436.0	435.1
60°	2171.0	1011.0	439.9	382.1	425.7	491.1	489.4	459.4	429.2	423.3	422.1
62.5°	2451.8	1111.4	398.7	348.9	394.3	449.4	465.7	439.0	413.2	412.9	413.5
65°	2887.3	1262.5	354.0	319.9	362.6	414.1	438.1	418.0	396.9	402.9	403.7
67.5°	3392.0	1387.8	310.1	291.5	330.3	380.6	413.2	396.9	375.3	390.7	391.0
70°	3560.0	1275.8	271.6	263.3	296.8	348.4	386.3	373.8	351.9	367.3	365.8
72°	3312.9	1030.0	246.8	242.0	271.6	321.7	362.3	352.2	330.6	340.9	337.1
72.5°	3235.0	982.0	240.5	236.7	264.8	314.9	356.1	346.9	325.2	334.1	330.6
75°	2885.8	852.8	206.8	207.7	231.1	281.7	321.1	318.1	295.9	296.8	295.6
77.5°	2093.1	625.3	174.2	180.1	196.7	247.6	285.9	284.1	259.8	255.3	254.5
80°	971.3	319.0	141.9	144.6	161.7	207.1	243.8	241.4	221.9	216.2	213.0
82.5°	332.7	151.7	106.6	108.4	125.3	166.8	211.5	210.0	193.7	182.8	176.0
85°	118.8	75.5	74.6	72.9	89.5	131.2	184.2	176.3	152.3	129.7	129.2
87.5°	38.5	32.3	38.5	38.2	52.1	88.9	133.9	114.0	110.5	91.8	90.1
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)