

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: P1209112

Luminaire Tested: UPW-SA2-090-750-U-T3R

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209112
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-SA2-090-750-U-T3R
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

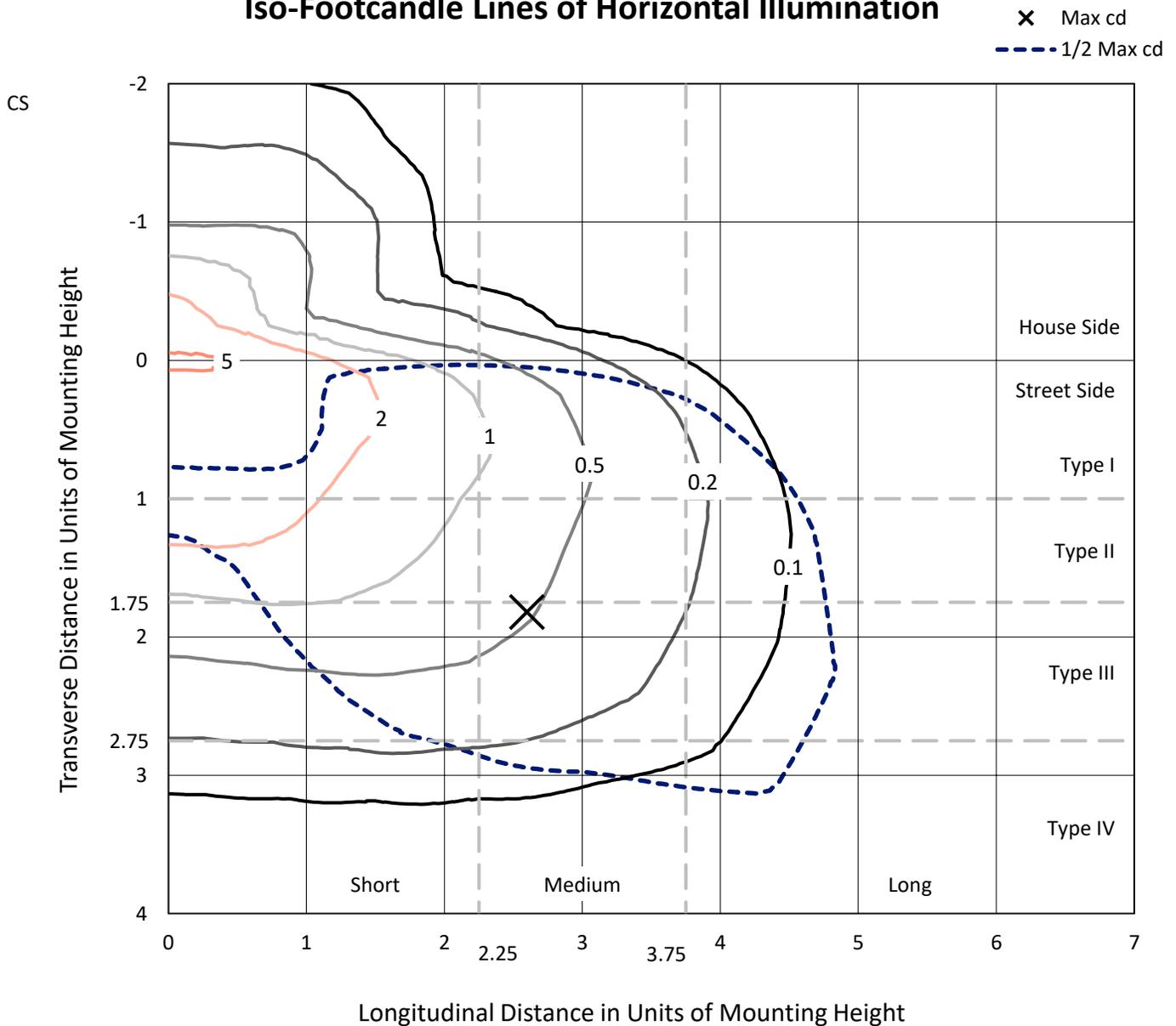
Lumens per Lamp: N/A
Luminaire Lumens: 12194 lumens
Efficiency: N/A
Efficacy: 141.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

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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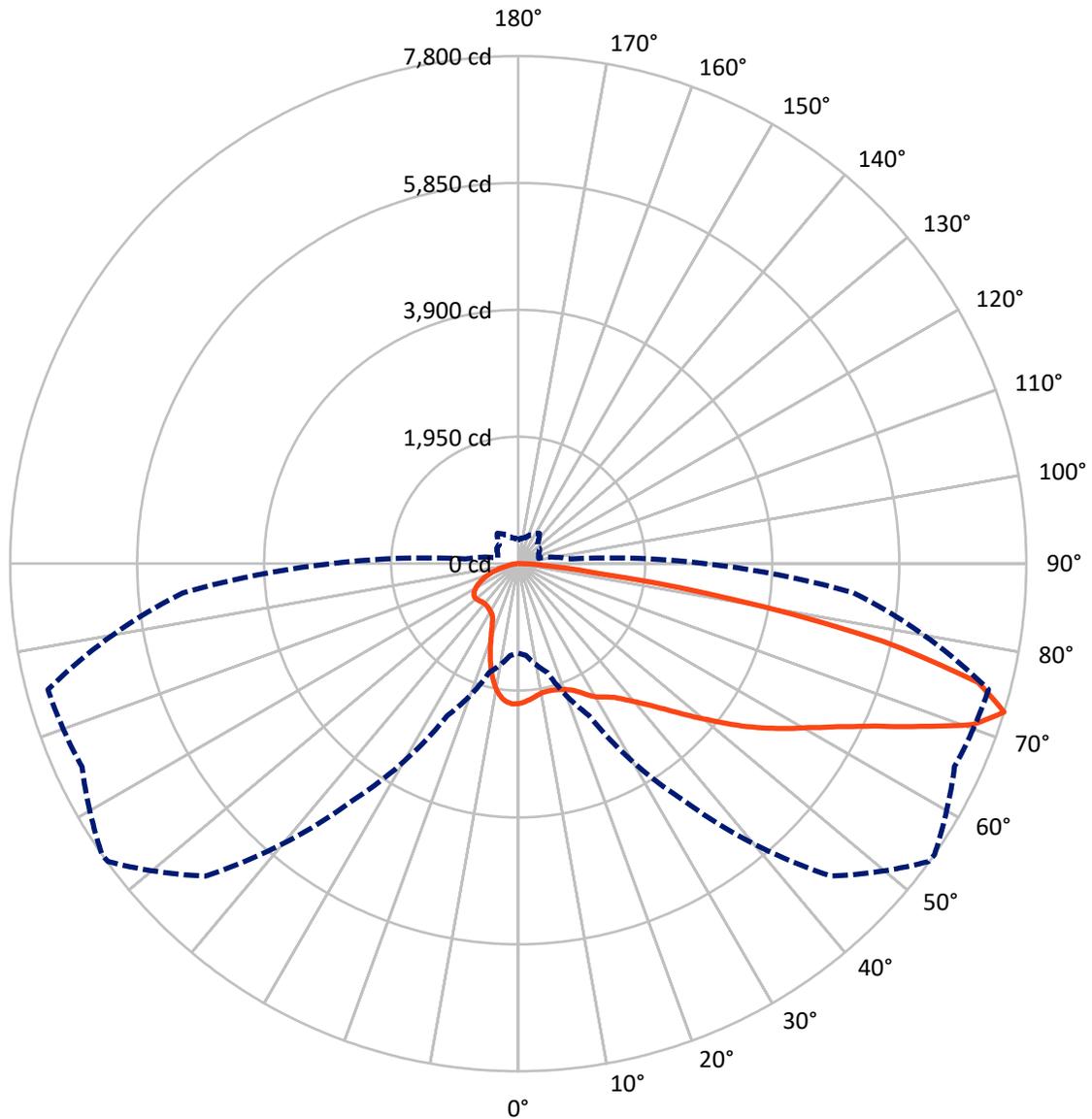
Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 5.4 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	2266.5	0.0	2266.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	9927.5	0.0	9927.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	12194.0	0.0	12194.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.6	1.6
10°-20°	518.1	4.2
20°-30°	854.3	7.0
30°-40°	1263.7	10.4
40°-50°	1763.9	14.5
50°-60°	2296.6	18.8
60°-70°	2822.5	23.1
70°-80°	2212.5	18.1
80°-90°	267.7	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°	12194.0	100.0
0°-180°	12194.0	100.0



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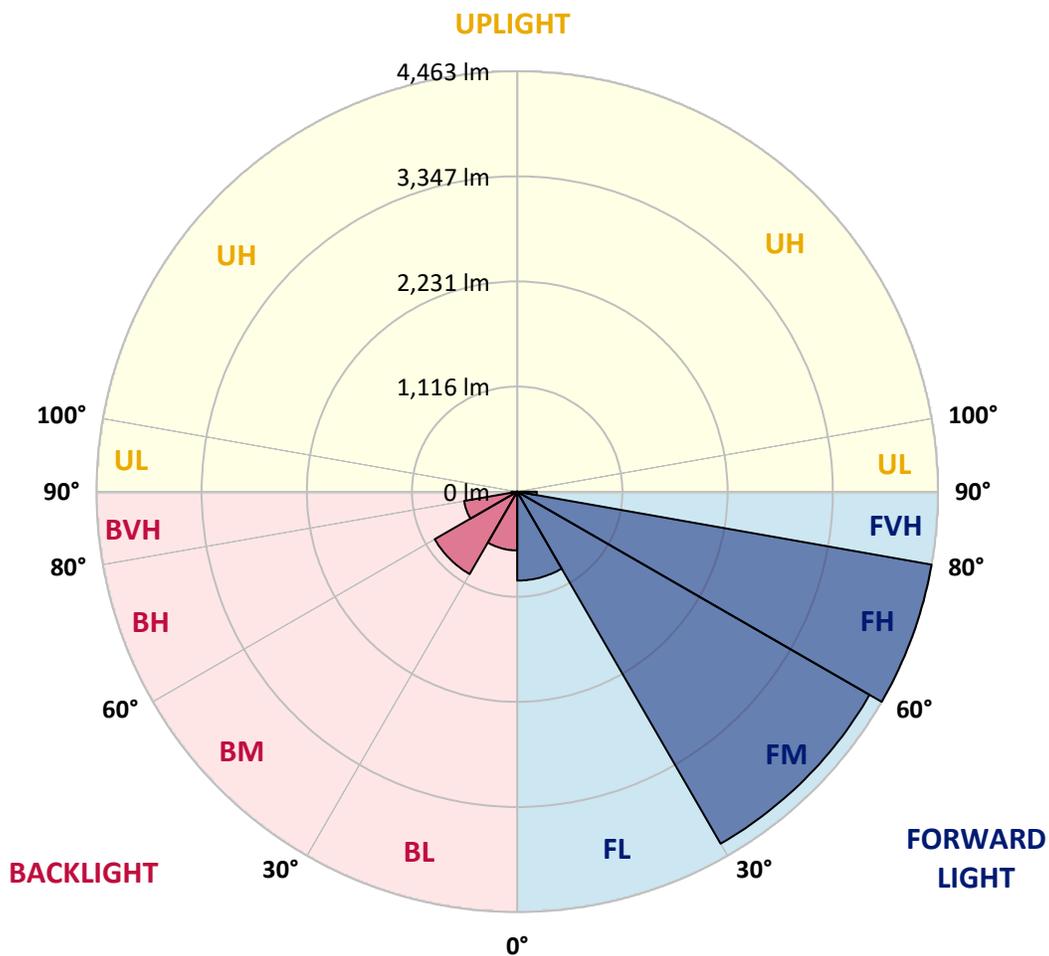
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	943.5	7.7			
FM	(30°-60°)	4314.5	35.4			
FH	(60°-80°)	4462.6	36.6			G2/5000
FVH	(80°-90°)	207.0	1.7			G2/225
BL	(0°-30°)	623.6	5.1	B2/1000		
BM	(30°-60°)	1009.7	8.3	B2/2500		
BH	(60°-80°)	572.4	4.7	B2/1000		G2/1000
BVH	(80°-90°)	60.7	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°	2150.8	2150.8	2150.8	2150.8	2150.8	2150.8	2150.8	2150.8	2150.8	2150.8	2150.8
2.5°	2080.7	2075.8	2082.0	2090.6	2100.1	2112.9	2120.3	2123.6	2136.3	2141.3	2152.0
5°	1984.4	1981.9	1992.2	2007.0	2028.0	2057.7	2081.6	2086.1	2119.9	2143.8	2165.6
7.5°	1914.3	1914.3	1926.3	1944.0	1967.5	2007.4	2041.2	2047.4	2104.6	2156.1	2196.5
10°	1858.7	1860.8	1874.8	1895.8	1923.4	1965.8	2010.7	2017.7	2100.5	2184.9	2249.2
12.5°	1821.7	1826.6	1839.4	1858.3	1892.5	1944.0	2000.8	2010.3	2109.2	2226.1	2312.6
15°	1845.2	1853.4	1854.6	1862.5	1881.4	1937.4	2006.6	2016.5	2127.7	2268.1	2384.7
17.5°	1948.1	1951.0	1938.2	1921.8	1912.7	1948.5	2023.9	2034.2	2149.9	2309.7	2453.9
20°	2104.6	2103.0	2075.4	2030.9	1984.8	1990.5	2052.3	2063.0	2180.0	2346.4	2523.1
22.5°	2302.3	2296.6	2254.1	2172.2	2093.5	2060.6	2102.2	2111.2	2225.3	2398.7	2597.2
25°	2542.0	2529.3	2473.2	2363.3	2247.5	2162.7	2177.1	2185.8	2291.2	2457.2	2665.2
27.5°	2794.9	2782.1	2710.9	2577.9	2423.8	2291.6	2280.5	2287.9	2366.2	2500.4	2715.4
30°	3059.3	3045.7	2980.7	2831.6	2610.8	2425.1	2376.9	2379.8	2418.9	2523.9	2756.6
32.5°	3325.0	3312.2	3239.3	3066.3	2813.9	2568.4	2446.5	2442.8	2450.6	2548.2	2803.2
35°	3594.3	3599.3	3514.0	3322.5	3038.7	2727.8	2528.9	2521.0	2503.7	2598.0	2869.1
37.5°	3882.7	3879.4	3769.0	3568.8	3273.9	2900.8	2647.1	2645.8	2586.1	2692.4	2972.4
40°	4075.4	4077.5	4010.3	3820.9	3511.6	3092.3	2798.6	2795.7	2717.5	2833.6	3107.9
42.5°	4150.8	4164.4	4181.7	4061.4	3760.3	3314.3	2979.4	2975.3	2900.8	3036.3	3267.3
45°	4156.1	4183.3	4290.4	4275.2	4012.4	3568.4	3210.5	3199.0	3145.4	3305.6	3457.6
47.5°	4110.0	4138.0	4315.9	4402.4	4237.7	3836.5	3480.7	3471.6	3425.5	3642.5	3663.5
50°	4009.1	4035.9	4263.2	4464.6	4423.0	4094.4	3792.0	3768.2	3743.4	4031.7	3899.1
52.5°	3820.0	3871.5	4192.8	4479.4	4533.8	4323.3	4119.5	4103.8	4117.4	4442.4	4135.1
55°	3372.4	3430.0	4011.2	4467.1	4615.8	4515.7	4446.9	4446.1	4516.5	4873.2	4388.4
57.5°	3121.5	3162.3	3641.3	4446.1	4713.0	4706.8	4771.0	4778.9	4916.0	5342.3	4653.7
60°	2979.8	3022.7	3453.9	4368.2	4863.7	4953.9	5101.8	5117.4	5322.1	5861.7	4972.9
62.5°	2850.9	2897.9	3337.8	4209.7	5041.2	5307.3	5498.0	5512.0	5752.1	6395.4	5281.3
65°	2630.6	2683.7	3167.7	4105.5	5202.7	5768.2	6001.7	6011.2	6245.9	6954.8	5517.3
67.5°	2319.2	2367.8	2846.8	3875.2	5322.1	6327.9	6671.4	6676.7	6735.6	7349.7	5638.0
70°	1955.5	1974.1	2389.6	3399.9	5180.9	6851.4	7405.3	7406.6	7182.1	7602.6	5618.3
72.5°	1374.0	1417.6	1734.8	2573.7	4452.3	6787.5	7786.3	7800.3	7389.7	7474.9	5169.3
75°	842.7	888.8	1088.1	1559.7	2824.6	5338.2	7194.0	7291.2	7000.5	6664.8	4222.9
77.5°	563.4	580.7	710.1	909.4	1279.7	3071.3	5530.9	5713.8	5815.5	4860.4	2700.6
80°	314.3	347.2	470.8	565.1	569.2	1220.4	3316.3	3359.2	3235.6	1935.4	833.2
82.5°	166.4	184.5	314.3	332.0	310.5	408.6	1236.0	1237.2	1033.8	518.9	247.5
85°	128.9	144.2	215.4	202.6	158.6	181.2	407.7	430.0	351.7	212.5	80.7
87.5°	64.3	79.9	146.2	128.5	62.2	51.9	145.8	155.7	138.8	83.2	29.2
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°	2150.8	2150.8	2150.8	2150.8	2150.8	2150.8	2150.8	2150.8	2150.8	2150.8	2150.8
2.5°	2156.1	2159.8	2164.4	2159.4	2157.8	2151.2	2140.1	2137.6	2131.8	2132.2	2135.5
5°	2175.1	2181.2	2178.8	2159.8	2137.2	2105.5	2072.5	2044.5	2026.0	2024.7	2023.5
7.5°	2211.3	2215.4	2196.1	2142.1	2078.7	2005.4	1936.2	1875.6	1839.0	1829.9	1827.9
10°	2268.1	2267.3	2214.2	2105.5	1979.0	1848.0	1736.8	1652.8	1603.8	1589.4	1585.7
12.5°	2331.6	2322.1	2220.4	2038.7	1838.2	1656.5	1515.7	1422.2	1371.1	1354.6	1350.5
15°	2397.1	2373.6	2205.1	1939.1	1665.2	1450.2	1302.3	1215.8	1188.2	1179.2	1177.5
17.5°	2458.0	2412.7	2161.5	1804.0	1467.9	1244.7	1129.3	1094.7	1101.3	1113.3	1113.7
20°	2517.7	2439.1	2091.5	1633.5	1259.9	1075.4	1036.3	1061.8	1093.1	1117.4	1120.7
22.5°	2576.6	2457.6	2001.3	1436.6	1073.7	980.2	1007.8	1054.4	1090.2	1116.6	1121.1
25°	2626.1	2462.1	1876.9	1226.5	944.4	944.4	994.2	1038.3	1073.7	1099.7	1104.2
27.5°	2644.2	2431.7	1701.4	1032.1	879.3	927.9	975.3	1012.0	1042.0	1069.6	1074.6
30°	2651.2	2375.2	1498.8	876.0	852.6	910.2	949.8	981.1	1009.5	1035.4	1040.0
32.5°	2652.4	2307.3	1283.8	787.5	834.0	891.7	918.0	945.6	976.1	986.4	988.1
35°	2660.2	2227.0	1057.3	742.2	816.7	874.4	895.4	915.2	865.7	869.4	872.7
37.5°	2682.9	2147.5	867.8	716.6	805.6	865.3	890.5	818.8	780.1	771.0	769.8
40°	2725.3	2062.6	727.4	696.1	801.5	869.9	858.7	764.4	697.7	647.9	640.5
42.5°	2784.2	1971.2	637.6	682.5	804.4	891.7	814.7	712.1	601.3	569.2	565.1
45°	2850.5	1875.2	589.0	673.0	814.3	908.6	805.6	642.5	556.4	532.1	530.1
47.5°	2914.8	1757.8	563.8	668.9	827.8	895.0	767.3	621.1	535.0	522.2	523.5
50°	2988.5	1652.0	548.6	664.3	839.8	886.3	724.1	610.0	526.8	542.4	558.9
52.5°	3050.7	1542.4	535.0	655.3	844.3	871.1	712.9	612.0	526.8	556.8	572.5
55°	3124.4	1459.6	519.4	636.3	835.7	827.8	705.1	624.4	533.0	514.0	515.7
57.5°	3219.5	1432.5	502.1	606.7	806.8	764.8	701.4	636.3	529.2	517.3	521.4
60°	3351.3	1461.3	495.1	568.0	762.0	715.4	701.8	630.2	503.3	482.7	483.1
62.5°	3477.0	1493.4	494.6	543.7	706.8	671.3	692.3	610.0	490.1	478.2	482.7
65°	3518.2	1460.9	474.9	516.5	644.6	618.6	675.0	588.6	480.2	462.1	461.3
67.5°	3463.0	1360.0	434.9	472.4	573.3	557.3	652.4	563.0	464.6	449.8	447.3
70°	3299.0	1134.7	385.5	414.3	492.2	488.1	616.6	533.4	443.6	430.8	420.1
72.5°	2857.9	808.5	325.0	344.7	400.7	413.9	567.1	494.6	413.9	386.3	369.9
75°	2347.2	598.4	266.9	271.0	304.4	340.2	499.2	449.3	378.9	332.0	319.2
77.5°	1437.4	366.1	212.5	214.2	218.3	271.4	411.0	398.7	334.4	276.8	267.7
80°	465.4	199.8	153.6	161.5	149.1	198.9	318.0	339.4	287.1	231.5	221.6
82.5°	177.1	116.6	103.8	109.1	103.4	133.4	231.9	271.8	235.2	190.3	154.9
85°	85.7	65.9	61.4	68.8	63.8	68.4	148.3	200.2	178.3	124.0	115.3
87.5°	30.5	29.2	23.5	31.7	27.2	24.3	45.3	100.9	117.8	85.3	76.2
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)