

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: P1209354

Luminaire Tested: UPW-SA2-110-750-U-T3R-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209354
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-110-750-U-T3R-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11354 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

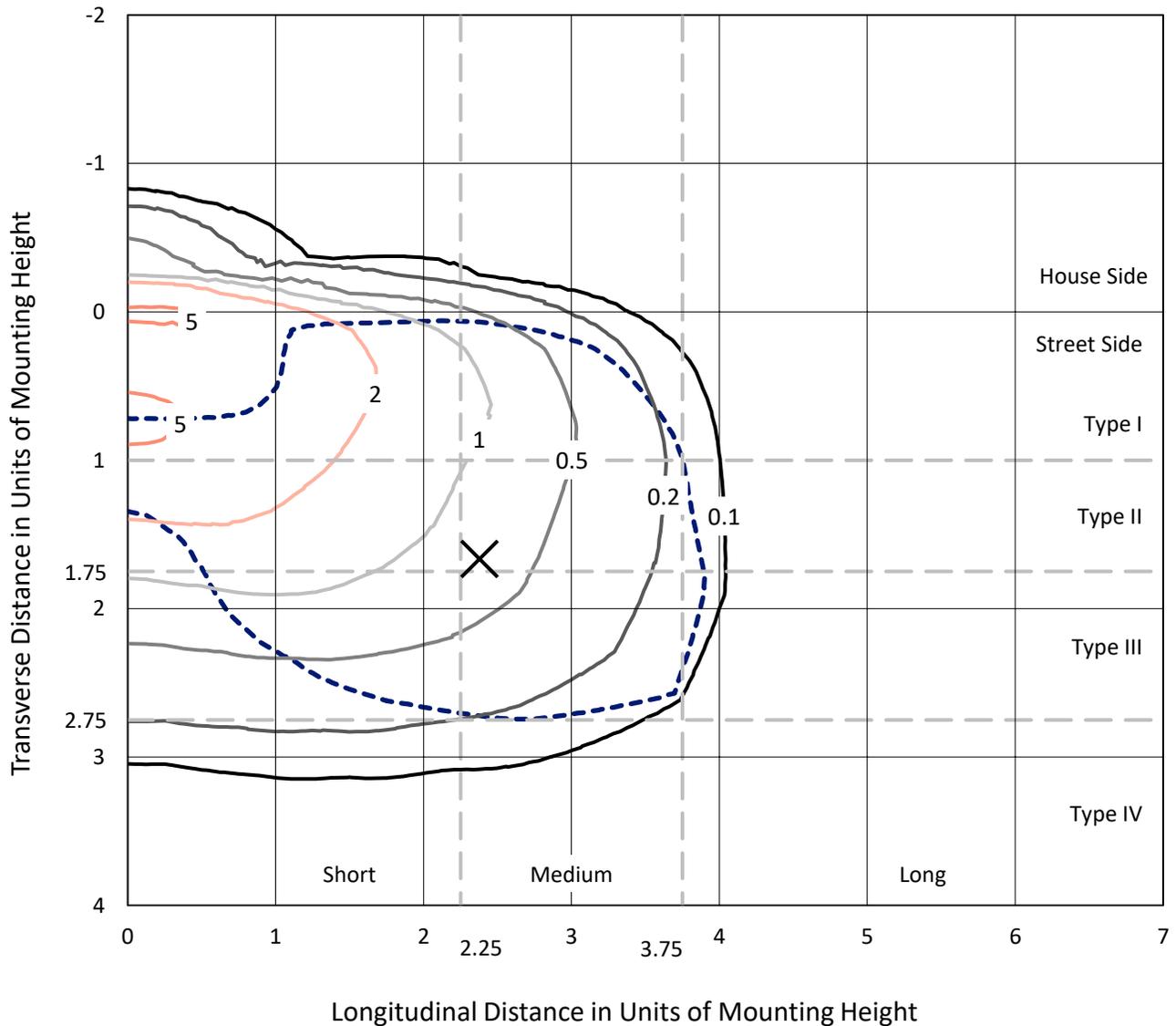
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

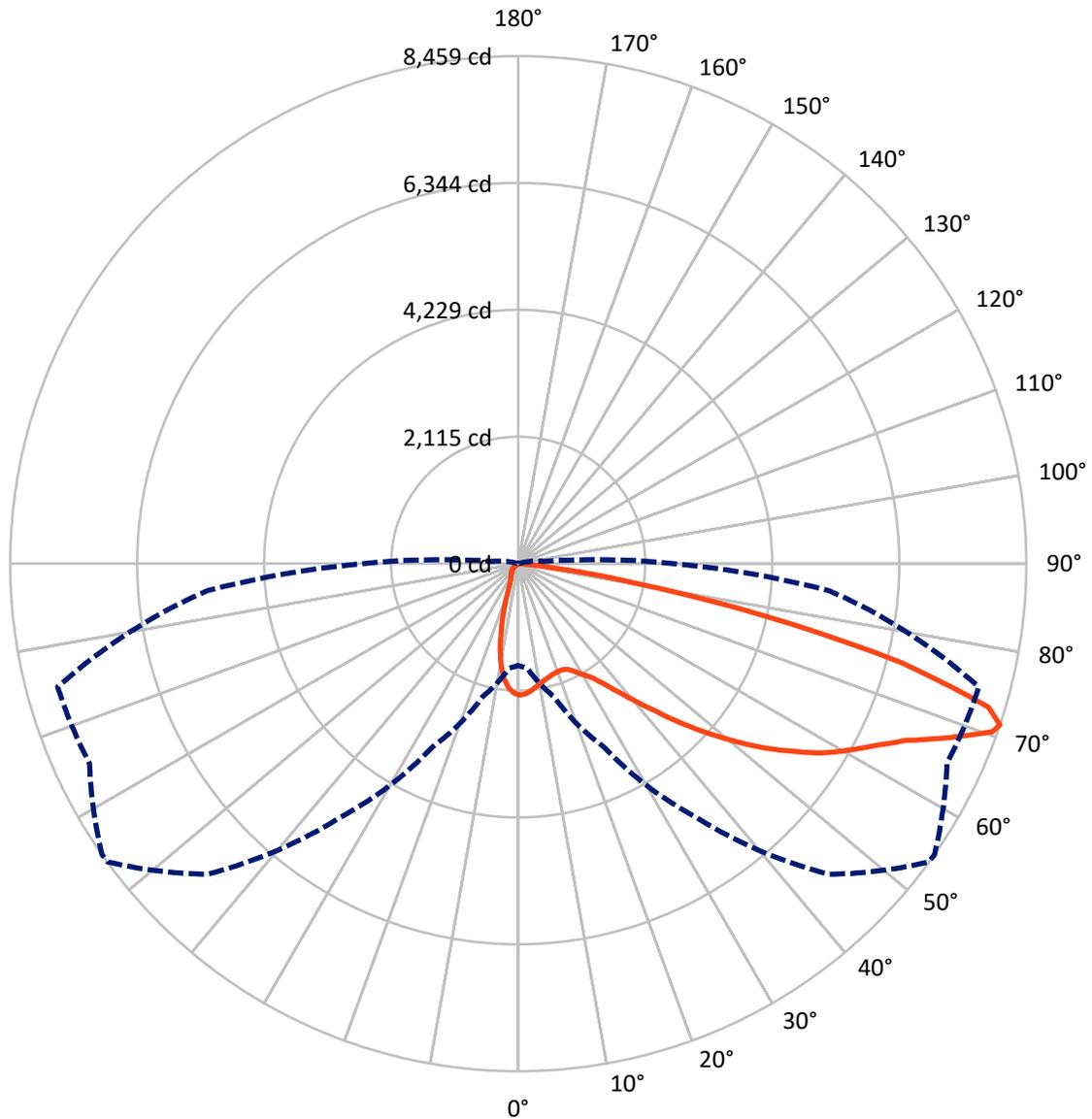
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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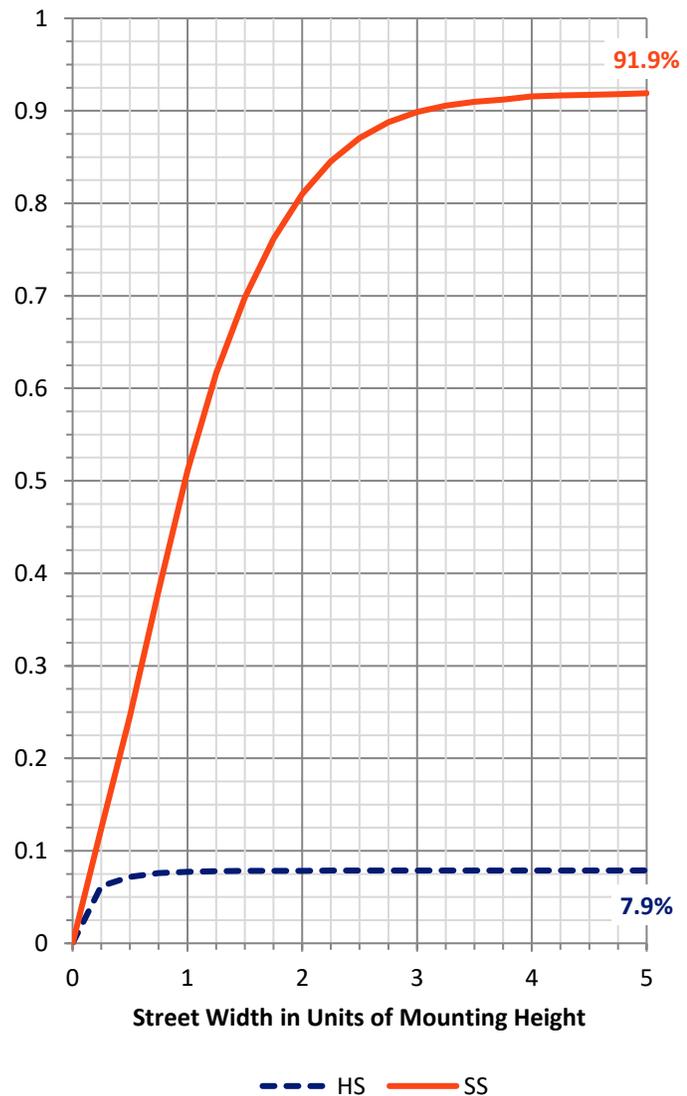
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	898.9	0.0	898.9
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	10455.1	0.0	10455.1
	% Fixture	92.1	0.0	92.1
Total	Lumens	11354.0	0.0	11354.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.7	1.6
10°-20°	421.5	3.7
20°-30°	677.3	6.0
30°-40°	1150.8	10.1
40°-50°	1786.2	15.7
50°-60°	2401.5	21.2
60°-70°	2937.9	25.9
70°-80°	1717.7	15.1
80°-90°	74.3	0.7
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°	11354.0	100.0
0°-180°	11354.0	100.0



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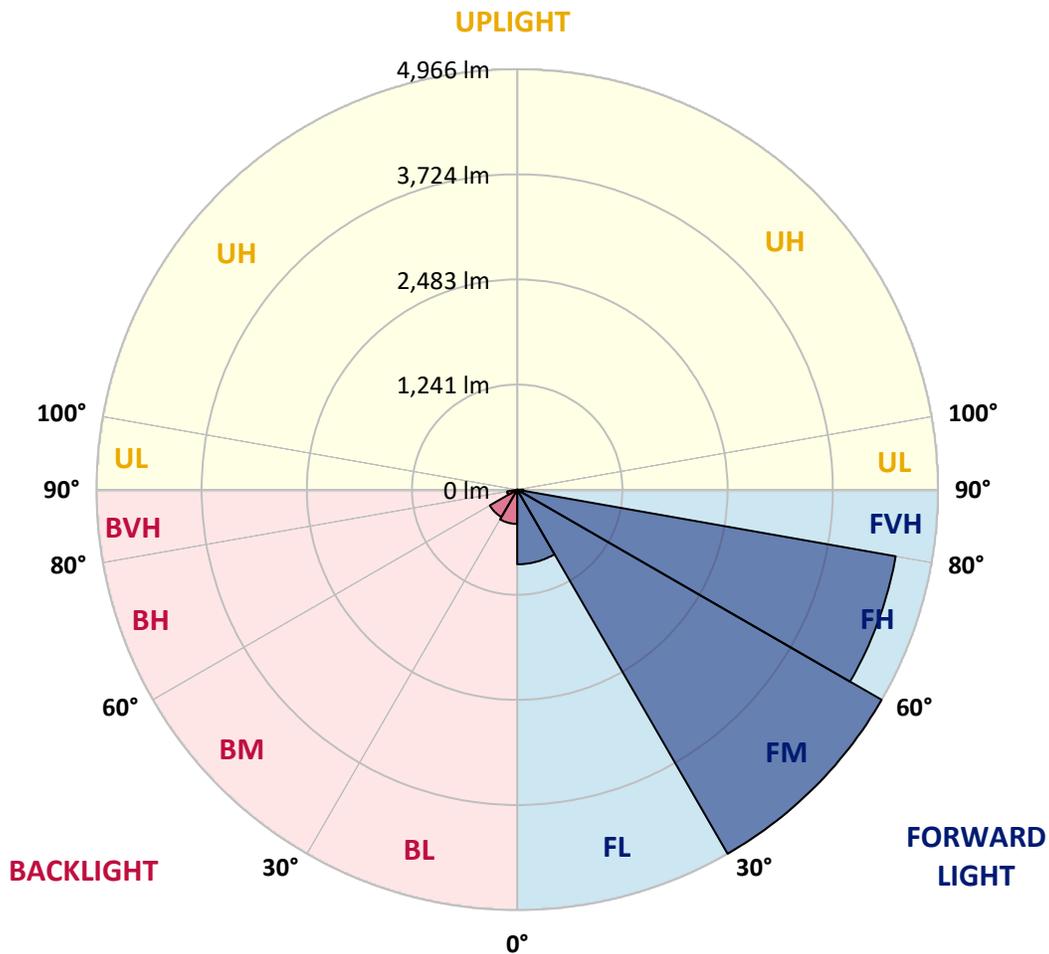
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	880.9	7.8			
FM	(30°-60°)	4965.9	43.7			
FH	(60°-80°)	4535.2	39.9			G2/5000
FVH	(80°-90°)	73.1	0.6			G1/100
BL	(0°-30°)	404.6	3.6	B1/500		
BM	(30°-60°)	372.7	3.3	B1/1000		
BH	(60°-80°)	120.4	1.1	B1/500		G1/500
BVH	(80°-90°)	1.2	0.0			G0/10
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°	54°	55°	65°	75°	85°
0°	2189.7	2189.7	2189.7	2189.7	2189.7	2189.7	2189.7	2189.7	2189.7	2189.7	2189.7
2.5°	2125.4	2128.0	2137.1	2141.2	2150.9	2167.2	2175.4	2175.9	2189.1	2194.2	2198.3
5°	1975.0	1990.3	2005.6	2021.9	2051.5	2090.8	2129.5	2133.1	2175.9	2207.5	2224.3
7.5°	1845.5	1859.3	1877.7	1903.7	1945.5	2007.1	2071.9	2079.5	2160.6	2232.5	2270.2
10°	1712.5	1723.7	1750.2	1788.4	1846.0	1928.6	2015.8	2028.6	2146.8	2266.1	2332.4
12.5°	1570.2	1576.9	1609.0	1664.0	1748.7	1853.7	1968.4	1985.2	2138.2	2304.9	2405.8
15°	1462.2	1465.2	1495.8	1552.9	1649.8	1786.4	1931.7	1952.1	2140.2	2351.3	2485.9
17.5°	1434.6	1436.2	1452.5	1491.7	1577.4	1726.2	1902.6	1927.6	2146.3	2396.6	2566.4
20°	1546.3	1535.6	1518.7	1512.6	1549.3	1690.0	1885.3	1913.3	2154.5	2436.9	2638.8
22.5°	1852.7	1821.1	1751.2	1657.9	1601.3	1692.6	1889.9	1917.9	2180.5	2486.4	2722.4
25°	2307.4	2263.6	2144.8	1961.3	1784.9	1766.0	1928.1	1956.7	2231.0	2545.5	2802.5
27.5°	2824.9	2781.6	2636.3	2374.2	2073.4	1911.3	2015.8	2042.3	2305.9	2598.0	2863.6
30°	3320.4	3308.2	3136.9	2839.2	2436.4	2146.8	2129.0	2151.4	2361.5	2629.6	2912.1
32.5°	3740.5	3721.1	3583.5	3293.9	2851.9	2429.8	2262.1	2268.7	2403.3	2670.4	2975.3
35°	4130.0	4106.1	3985.2	3711.5	3278.1	2775.4	2467.0	2457.3	2494.5	2752.5	3067.1
37.5°	4470.1	4492.0	4357.9	4097.4	3660.5	3134.9	2743.3	2714.3	2637.3	2886.1	3200.1
40°	4754.5	4754.5	4684.7	4467.5	4073.4	3506.5	3055.8	3017.6	2851.9	3092.0	3368.9
42.5°	4857.0	4878.9	4904.9	4782.1	4443.0	3893.0	3404.0	3364.3	3154.2	3384.2	3582.0
45°	4863.1	4897.8	5030.9	5030.4	4777.0	4276.8	3796.6	3777.7	3541.7	3759.4	3846.1
47.5°	4777.0	4820.3	5039.5	5163.9	5041.6	4634.2	4225.9	4202.4	3997.0	4219.2	4122.4
50°	4643.9	4691.8	4946.7	5216.4	5221.5	4945.2	4678.1	4642.9	4498.1	4744.9	4407.9
52.5°	4405.8	4498.6	4863.6	5228.7	5339.8	5213.9	5108.4	5093.1	5058.9	5251.1	4635.2
55°	3896.5	3999.5	4655.1	5232.8	5449.4	5452.0	5511.6	5515.7	5584.5	5724.2	4804.5
57.5°	3655.9	3714.0	4291.1	5252.1	5612.1	5722.2	5922.5	5954.1	6060.7	6173.4	4997.7
60°	3504.5	3573.3	4111.7	5225.6	5867.5	6076.5	6303.4	6314.1	6428.3	6636.8	5259.3
62.5°	3383.6	3451.5	3998.5	5123.7	6154.5	6502.7	6675.5	6676.6	6762.2	7188.9	5556.5
65°	3085.4	3142.5	3769.6	5008.9	6344.2	6924.3	7107.9	7101.2	7171.1	7771.1	5901.6
67.5°	2654.1	2697.9	3302.1	4574.1	6272.8	7307.7	7760.4	7738.5	7653.9	8274.3	6037.2
70°	2052.0	2067.8	2602.6	3811.9	5603.9	7455.0	8391.1	8379.8	7950.1	8184.1	5540.2
71°	1696.2	1748.2	2293.7	3364.3	5155.8	7318.9	8452.2	8458.9	7875.6	7938.3	5198.1
72.5°	985.0	1029.3	1662.5	2583.7	4377.3	6751.0	8135.1	8183.1	7527.9	7220.5	4440.0
75°	211.1	225.8	616.4	1250.6	2407.9	4731.6	6421.1	6591.9	6135.6	4912.1	2676.0
77.5°	146.8	158.6	264.1	567.4	795.8	2338.0	3988.8	4181.5	3665.6	1846.0	856.5
80°	116.2	129.5	206.0	280.4	215.1	754.0	1868.5	1986.2	1222.5	411.9	144.3
82.5°	64.7	77.0	160.6	151.4	82.6	143.3	523.1	591.4	244.7	83.1	34.2
85°	18.9	22.9	103.5	110.1	35.2	27.5	89.2	110.6	46.4	21.9	15.3
87.5°	0.0	0.0	50.0	42.3	10.2	4.1	8.2	9.2	9.2	9.2	10.2
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°	2189.7	2189.7	2189.7	2189.7	2189.7	2189.7	2189.7	2189.7	2189.7	2189.7	2189.7
2.5°	2198.3	2201.9	2189.1	2172.3	2154.5	2132.6	2109.6	2091.8	2091.3	2082.6	2073.9
5°	2225.3	2223.3	2188.1	2134.6	2071.4	2005.6	1942.9	1872.0	1848.6	1819.5	1809.8
7.5°	2275.3	2261.0	2186.6	2069.3	1930.7	1793.0	1650.8	1507.5	1446.3	1391.3	1381.6
10°	2338.0	2311.0	2176.9	1971.5	1717.1	1463.2	1248.5	1053.8	968.1	902.4	899.3
12.5°	2403.3	2362.0	2149.9	1823.6	1437.2	1080.3	833.0	641.3	570.0	524.1	528.2
15°	2471.6	2409.9	2091.8	1624.3	1118.5	733.1	511.9	399.2	370.6	358.9	362.0
17.5°	2541.4	2443.0	2010.7	1384.2	804.0	473.1	354.3	322.7	322.7	325.3	326.3
20°	2602.1	2460.9	1891.4	1115.0	545.0	344.6	310.0	305.4	307.9	312.0	312.5
22.5°	2662.3	2461.9	1735.9	842.2	381.3	301.8	295.2	293.1	294.7	299.3	299.8
25°	2711.2	2449.7	1541.2	599.0	304.4	284.5	281.4	280.4	281.4	287.0	287.0
27.5°	2731.1	2405.3	1303.6	421.1	272.8	265.1	264.1	265.1	266.6	270.7	271.2
30°	2733.1	2327.8	1044.6	304.9	247.3	239.1	241.1	244.7	243.2	242.2	243.2
32.5°	2738.2	2238.1	792.3	250.8	225.8	213.1	210.6	210.6	204.4	200.9	198.8
35°	2755.0	2132.6	574.6	225.3	203.9	189.1	179.5	168.2	156.5	150.4	148.9
37.5°	2781.6	2021.9	411.4	208.5	184.6	167.7	149.4	129.5	112.7	108.1	108.1
40°	2830.0	1907.7	304.4	195.3	169.3	148.4	120.8	94.8	79.5	77.0	77.0
42.5°	2906.5	1787.4	242.7	183.5	156.0	128.5	92.3	68.8	57.6	56.1	55.6
45°	2986.0	1654.9	212.1	172.3	141.7	105.5	68.3	51.0	44.4	42.8	42.8
47.5°	3065.5	1513.6	197.3	161.6	128.0	82.1	51.0	40.3	37.2	37.2	37.7
50°	3132.8	1366.3	186.6	149.9	110.1	62.2	40.3	34.2	33.1	35.2	35.7
52.5°	3149.6	1221.5	173.3	135.1	88.2	47.4	33.1	30.1	30.1	30.1	30.1
55°	3139.4	1109.4	156.0	116.7	65.3	37.7	28.5	26.5	26.0	26.0	26.0
57.5°	3174.1	1043.1	124.9	90.7	46.9	30.6	25.0	23.5	22.4	21.9	21.9
60°	3244.0	999.7	89.2	65.3	35.2	25.5	21.4	19.9	18.4	17.3	17.3
62.5°	3336.7	962.0	66.3	48.4	27.0	20.4	17.8	16.3	14.3	13.3	13.3
65°	3408.1	894.7	50.5	36.2	20.4	16.3	13.8	13.3	10.2	9.2	8.7
67.5°	3299.0	746.9	40.8	26.5	15.3	12.7	10.7	10.2	6.1	5.1	5.1
70°	2829.5	520.0	32.6	19.4	11.2	10.2	8.7	6.6	4.6	4.1	4.1
71°	2565.9	434.4	29.6	16.3	9.7	9.7	8.2	5.6	4.1	3.6	3.6
72.5°	2131.5	308.4	25.0	12.7	8.7	10.2	8.7	5.1	4.1	3.6	3.1
75°	1237.3	129.0	17.3	8.7	6.6	12.2	11.2	4.6	3.1	2.5	2.5
77.5°	372.2	47.4	9.7	5.6	5.1	10.7	12.7	4.1	1.5	0.5	0.5
80°	67.8	20.4	6.1	3.6	3.6	6.6	9.7	2.0	0.0	0.0	0.0
82.5°	24.0	10.2	3.6	2.0	1.5	3.1	4.6	0.0	0.0	0.0	0.0
85°	13.8	7.1	2.0	1.0	0.0	0.5	1.0	0.0	0.0	0.0	0.0
87.5°	9.2	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)