

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: P1209570

Luminaire Tested: UPW-SA2-130-740-U-T3R-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209570
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-SA2-130-740-U-T3R-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 4000K, 1200mA 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: 12455 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

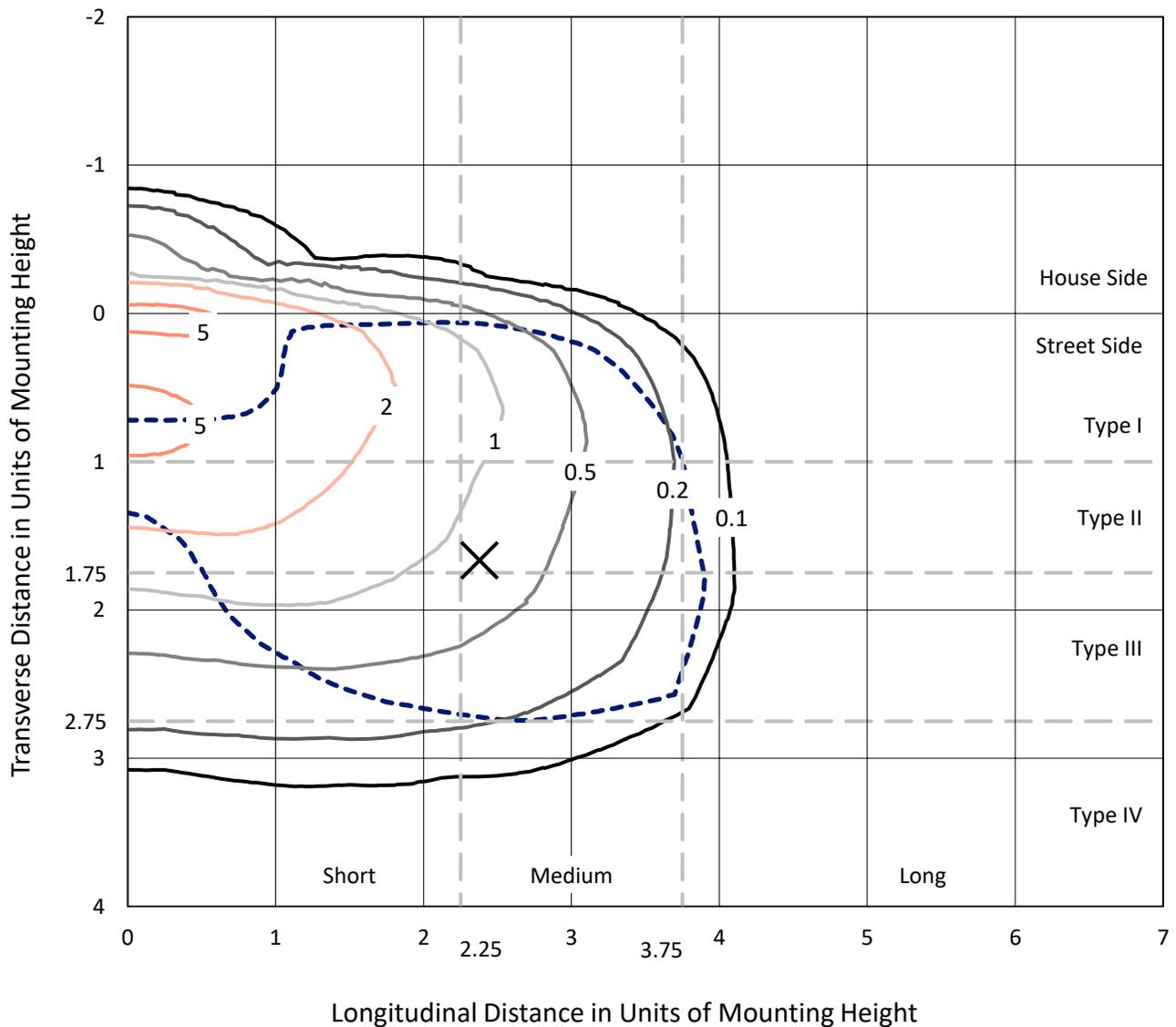
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

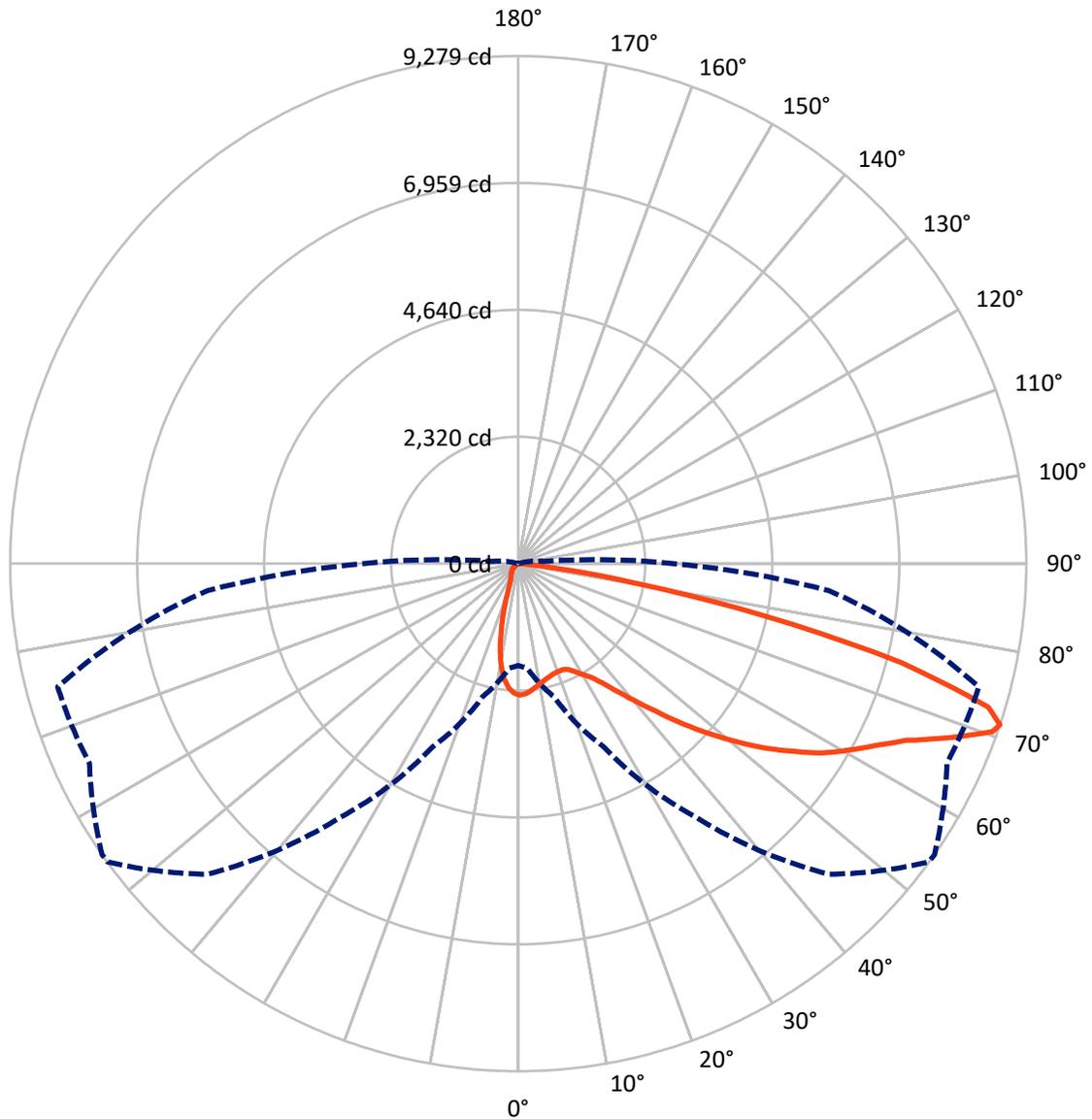
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.2 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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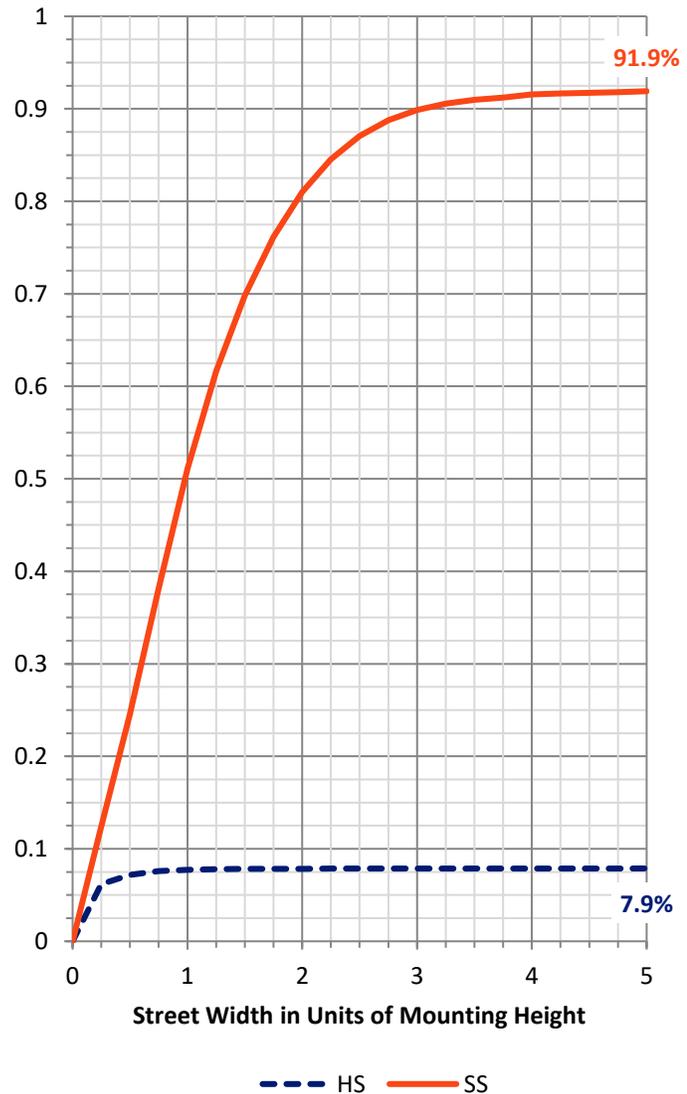
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	986.1	0.0	986.1
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	11468.9	0.0	11468.9
	% Fixture	92.1	0.0	92.1
Total	Lumens	12455.0	0.0	12455.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.8	1.6
10°-20°	462.4	3.7
20°-30°	743.0	6.0
30°-40°	1262.4	10.1
40°-50°	1959.4	15.7
50°-60°	2634.4	21.2
60°-70°	3222.8	25.9
70°-80°	1884.3	15.1
80°-90°	81.5	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°	12455.0	100.0
0°-180°	12455.0	100.0



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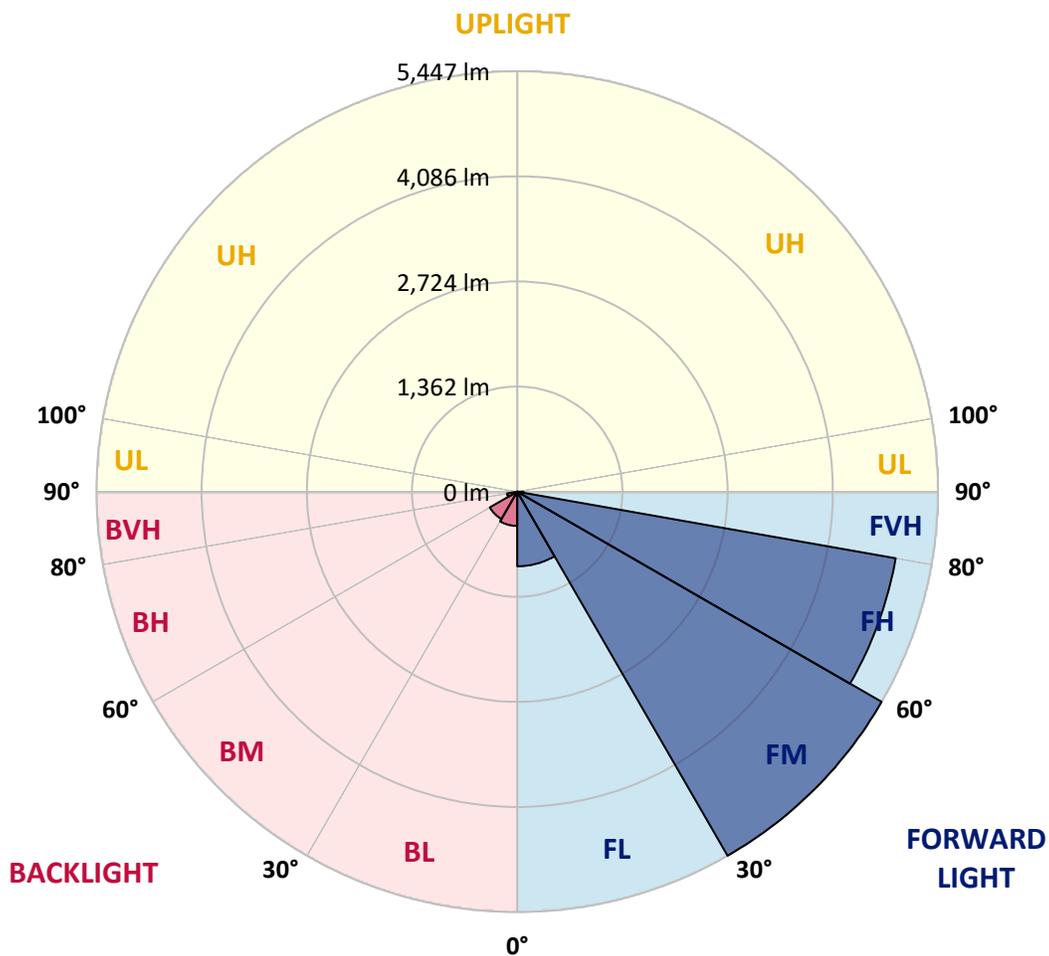
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	966.3	7.8			
FM	(30°-60°)	5447.5	43.7			
FH	(60°-80°)	4974.9	39.9			G2/5000
FVH	(80°-90°)	80.2	0.6			G1/100
BL	(0°-30°)	443.8	3.6	B1/500		
BM	(30°-60°)	408.9	3.3	B1/1000		
BH	(60°-80°)	132.1	1.1	B1/500		G1/500
BVH	(80°-90°)	1.3	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°	2402.0	2402.0	2402.0	2402.0	2402.0	2402.0	2402.0	2402.0	2402.0	2402.0	2402.0
2.5°	2331.5	2334.3	2344.4	2348.9	2359.5	2377.4	2386.3	2386.9	2401.4	2407.0	2411.5
5°	2166.5	2183.3	2200.1	2218.0	2250.4	2293.5	2336.0	2339.9	2386.9	2421.6	2440.0
7.5°	2024.5	2039.6	2059.7	2088.3	2134.1	2201.8	2272.8	2281.2	2370.1	2449.0	2490.4
10°	1878.5	1890.8	1919.9	1961.9	2025.1	2115.7	2211.3	2225.3	2355.0	2485.9	2558.6
12.5°	1722.5	1729.8	1765.0	1825.4	1918.2	2033.4	2159.3	2177.7	2345.5	2528.4	2639.1
15°	1603.9	1607.3	1640.8	1703.5	1809.7	1959.6	2119.0	2141.4	2347.7	2579.3	2726.9
17.5°	1573.7	1575.4	1593.3	1636.4	1730.3	1893.6	2087.1	2114.5	2354.5	2629.0	2815.3
20°	1696.2	1684.5	1666.0	1659.3	1699.6	1853.9	2068.1	2098.9	2363.4	2673.2	2894.7
22.5°	2032.3	1997.7	1921.0	1818.7	1756.6	1856.7	2073.2	2103.9	2391.9	2727.5	2986.4
25°	2531.2	2483.1	2352.8	2151.4	1957.9	1937.3	2115.1	2146.4	2447.3	2792.3	3074.2
27.5°	3098.8	3051.3	2891.9	2604.4	2274.5	2096.6	2211.3	2240.4	2529.5	2850.0	3141.3
30°	3642.4	3629.0	3441.1	3114.5	2672.7	2355.0	2335.4	2360.0	2590.5	2884.6	3194.5
32.5°	4103.2	4082.0	3931.0	3613.3	3128.5	2665.4	2481.4	2488.7	2636.3	2929.4	3263.8
35°	4530.5	4504.2	4371.7	4071.4	3596.0	3044.6	2706.2	2695.6	2736.4	3019.4	3364.5
37.5°	4903.5	4927.6	4780.5	4494.7	4015.4	3438.8	3009.3	2977.5	2893.0	3165.9	3510.4
40°	5215.6	5215.6	5139.0	4900.7	4468.4	3846.5	3352.2	3310.2	3128.5	3391.9	3695.5
42.5°	5328.0	5352.1	5380.6	5245.8	4873.9	4270.5	3734.1	3690.5	3460.1	3712.3	3929.3
45°	5334.7	5372.7	5518.7	5518.1	5240.2	4691.6	4164.8	4144.1	3885.1	4123.9	4219.0
47.5°	5240.2	5287.7	5528.2	5664.7	5530.5	5083.6	4635.6	4609.9	4384.5	4628.4	4522.1
50°	5094.2	5146.8	5426.4	5722.3	5727.9	5424.8	5131.7	5093.1	4934.3	5205.0	4835.3
52.5°	4833.1	4934.8	5335.3	5735.7	5857.6	5719.5	5603.7	5586.9	5549.5	5760.3	5084.7
55°	4274.4	4387.3	5106.5	5740.2	5977.9	5980.7	6046.1	6050.6	6126.1	6279.3	5270.4
57.5°	4010.4	4074.2	4707.2	5761.4	6156.3	6277.1	6496.8	6531.5	6648.4	6772.0	5482.4
60°	3844.3	3919.8	4510.4	5732.3	6436.4	6665.7	6914.6	6926.3	7051.6	7280.4	5769.3
62.5°	3711.8	3786.1	4386.2	5620.5	6751.3	7133.3	7322.9	7324.0	7417.9	7886.0	6095.3
65°	3384.6	3447.2	4135.1	5494.7	6959.3	7595.8	7797.1	7789.8	7866.5	8524.7	6473.9
67.5°	2911.5	2959.6	3622.3	5017.6	6881.0	8016.3	8512.9	8488.9	8396.1	9076.7	6622.7
70°	2251.0	2268.3	2855.0	4181.5	6147.3	8178.0	9204.7	9192.4	8721.0	8977.7	6077.4
71°	1860.6	1917.7	2516.1	3690.5	5655.7	8028.6	9271.9	9279.1	8639.3	8708.1	5702.1
72.5°	1080.5	1129.1	1823.7	2834.3	4801.7	7405.6	8924.0	8976.6	8257.9	7920.7	4870.5
75°	231.5	247.7	676.1	1371.8	2641.4	5190.4	7043.8	7231.1	6730.6	5388.4	2935.5
77.5°	161.1	173.9	289.7	622.4	873.0	2564.7	4375.6	4587.0	4021.0	2025.1	939.5
80°	127.5	142.1	225.9	307.6	236.0	827.1	2049.7	2178.8	1341.1	451.9	158.3
82.5°	71.0	84.4	176.2	166.1	90.6	157.2	573.8	648.7	268.4	91.2	37.5
85°	20.7	25.2	113.5	120.8	38.6	30.2	97.9	121.4	50.9	24.0	16.8
87.5°	0.0	0.0	54.8	46.4	11.2	4.5	8.9	10.1	10.1	10.1	11.2
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°	2402.0	2402.0	2402.0	2402.0	2402.0	2402.0	2402.0	2402.0	2402.0	2402.0	2402.0
2.5°	2411.5	2415.4	2401.4	2383.0	2363.4	2339.4	2314.2	2294.6	2294.1	2284.5	2275.0
5°	2441.1	2438.9	2400.3	2341.6	2272.2	2200.1	2131.3	2053.6	2027.9	1996.0	1985.3
7.5°	2495.9	2480.3	2398.6	2270.0	2117.9	1966.9	1810.9	1653.7	1586.6	1526.2	1515.6
10°	2564.7	2535.1	2388.0	2162.6	1883.6	1605.1	1369.6	1156.0	1062.0	989.9	986.5
12.5°	2636.3	2591.0	2358.4	2000.4	1576.5	1185.1	913.8	703.5	625.2	574.9	579.4
15°	2711.3	2643.6	2294.6	1781.8	1227.0	804.2	561.5	437.9	406.6	393.7	397.1
17.5°	2787.9	2679.9	2205.7	1518.4	881.9	519.0	388.7	354.0	354.0	356.8	357.9
20°	2854.4	2699.5	2074.8	1223.1	597.8	378.1	340.0	335.0	337.8	342.3	342.8
22.5°	2920.4	2700.6	1904.3	923.9	418.3	331.1	323.8	321.6	323.2	328.3	328.8
25°	2974.1	2687.2	1690.6	657.1	333.9	312.1	308.7	307.6	308.7	314.9	314.9
27.5°	2995.9	2638.6	1430.0	461.9	299.2	290.8	289.7	290.8	292.5	297.0	297.5
30°	2998.2	2553.5	1145.9	334.4	271.2	262.3	264.5	268.4	266.8	265.6	266.8
32.5°	3003.7	2455.1	869.1	275.2	247.7	233.8	231.0	231.0	224.3	220.3	218.1
35°	3022.2	2339.4	630.3	247.2	223.7	207.5	196.9	184.6	171.7	165.0	163.3
37.5°	3051.3	2218.0	451.3	228.7	202.4	184.0	163.9	142.1	123.6	118.6	118.6
40°	3104.4	2092.7	333.9	214.2	185.7	162.7	132.5	104.0	87.2	84.4	84.4
42.5°	3188.3	1960.7	266.2	201.3	171.1	140.9	101.2	75.5	63.2	61.5	61.0
45°	3275.5	1815.3	232.6	189.0	155.5	115.8	74.9	55.9	48.7	47.0	47.0
47.5°	3362.8	1660.4	216.4	177.3	140.4	90.0	55.9	44.2	40.8	40.8	41.4
50°	3436.6	1498.8	204.7	164.4	120.8	68.2	44.2	37.5	36.4	38.6	39.1
52.5°	3455.1	1340.0	190.1	148.2	96.8	52.0	36.4	33.0	33.0	33.0	33.0
55°	3443.9	1216.9	171.1	128.1	71.6	41.4	31.3	29.1	28.5	28.5	28.5
57.5°	3481.9	1144.2	137.0	99.5	51.5	33.6	27.4	25.7	24.6	24.0	24.0
60°	3558.5	1096.7	97.9	71.6	38.6	28.0	23.5	21.8	20.1	19.0	19.0
62.5°	3660.3	1055.3	72.7	53.1	29.6	22.4	19.6	17.9	15.7	14.5	14.5
65°	3738.6	981.5	55.4	39.7	22.4	17.9	15.1	14.5	11.2	10.1	9.5
67.5°	3618.9	819.3	44.7	29.1	16.8	14.0	11.7	11.2	6.7	5.6	5.6
70°	3103.9	570.4	35.8	21.3	12.3	11.2	9.5	7.3	5.0	4.5	4.5
71°	2814.7	476.5	32.4	17.9	10.6	10.6	8.9	6.2	4.5	3.9	3.9
72.5°	2338.2	338.3	27.4	14.0	9.5	11.2	9.5	5.6	4.5	3.9	3.4
75°	1357.3	141.5	19.0	9.5	7.3	13.4	12.3	5.0	3.4	2.8	2.8
77.5°	408.3	52.0	10.6	6.2	5.6	11.7	14.0	4.5	1.7	0.6	0.6
80°	74.4	22.4	6.7	3.9	3.9	7.3	10.6	2.2	0.0	0.0	0.0
82.5°	26.3	11.2	3.9	2.2	1.7	3.4	5.0	0.0	0.0	0.0	0.0
85°	15.1	7.8	2.2	1.1	0.0	0.6	1.1	0.0	0.0	0.0	0.0
87.5°	10.1	2.2	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)