

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: P1209516

Luminaire Tested: UPW-SA2-130-730-U-T3R-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209516
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/20/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-130-730-U-T3R-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 3000K, 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: 11341 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

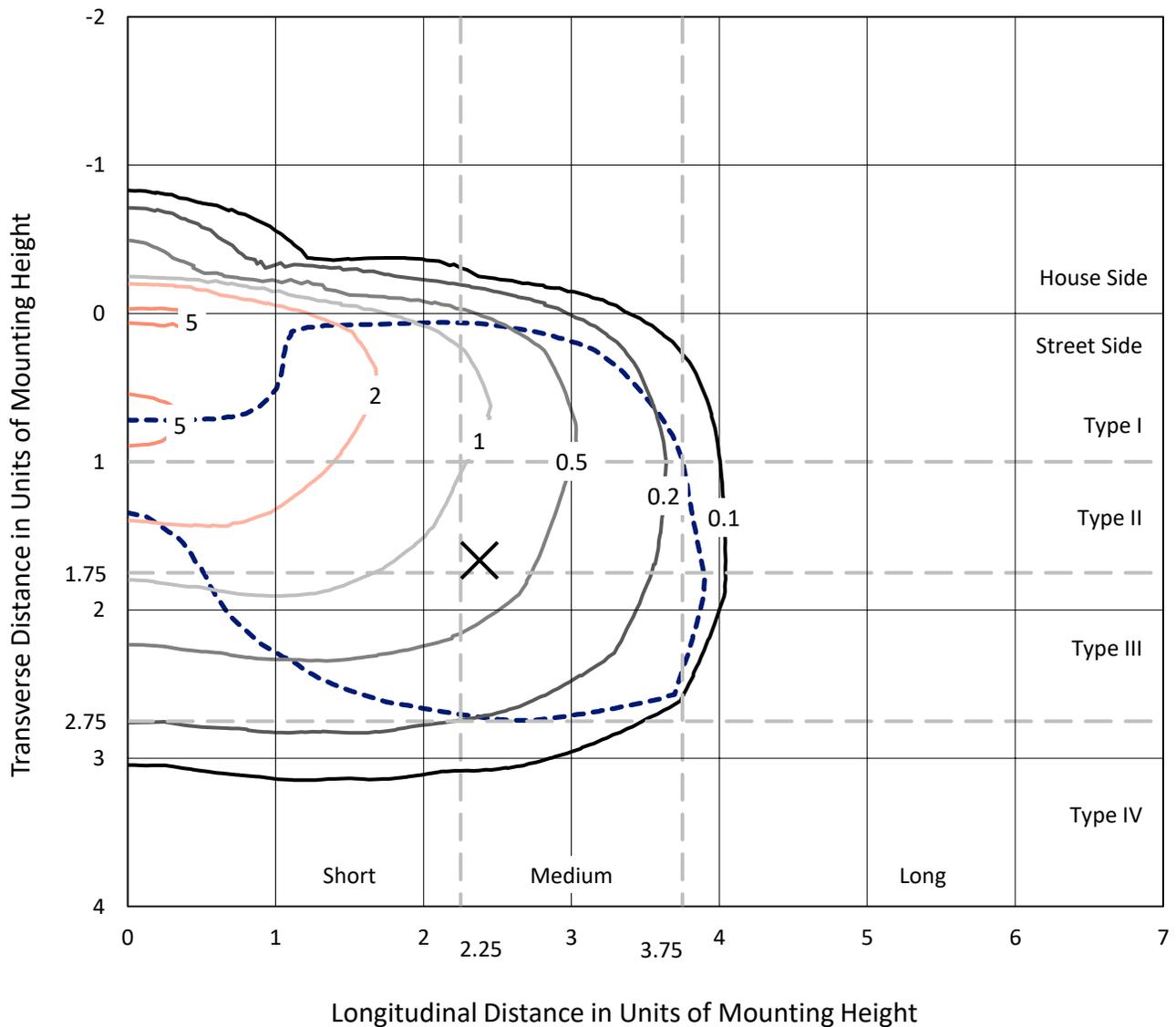
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

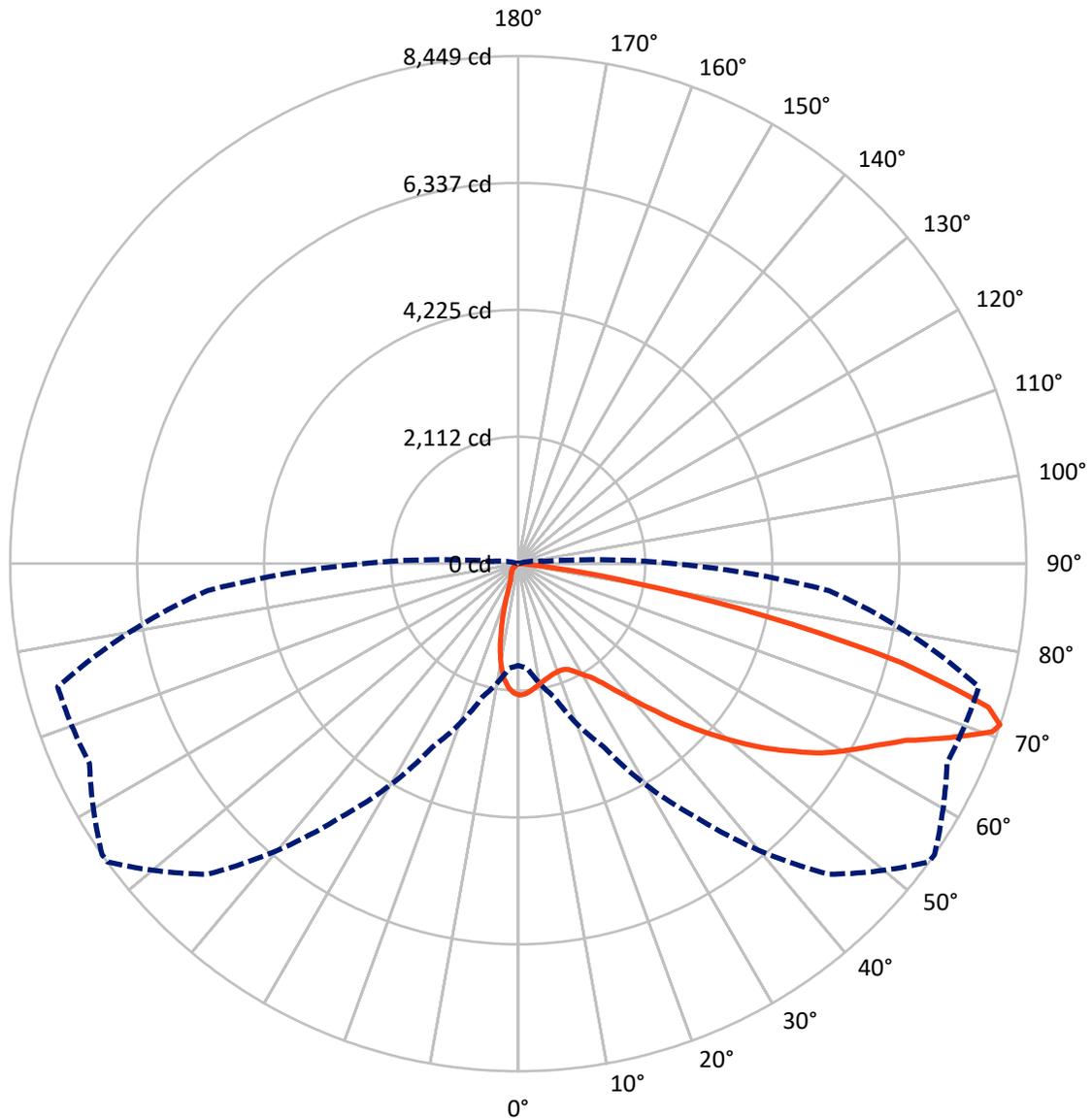
× Max cd
 - - - 1/2 Max cd



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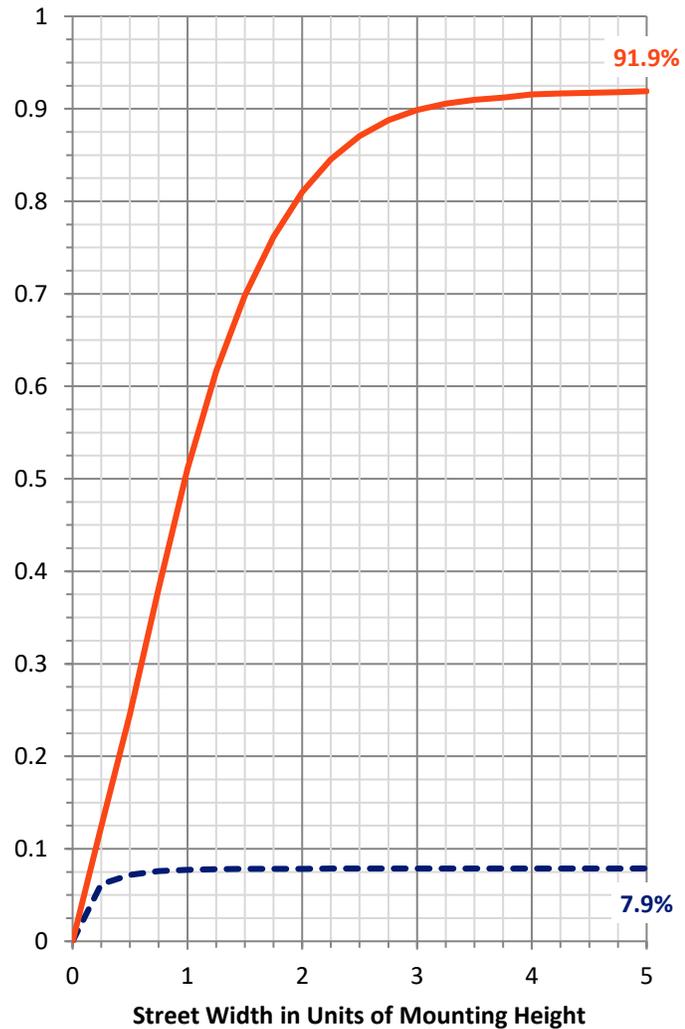
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	897.9	0.0	897.9
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	10443.1	0.0	10443.1
	% Fixture	92.1	0.0	92.1
Total	Lumens	11341.0	0.0	11341.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.5	1.6
10°-20°	421.0	3.7
20°-30°	676.6	6.0
30°-40°	1149.5	10.1
40°-50°	1784.2	15.7
50°-60°	2398.8	21.2
60°-70°	2934.5	25.9
70°-80°	1715.8	15.1
80°-90°	74.2	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°	11341.0	100.0
0°-180°	11341.0	100.0



--- HS — SS

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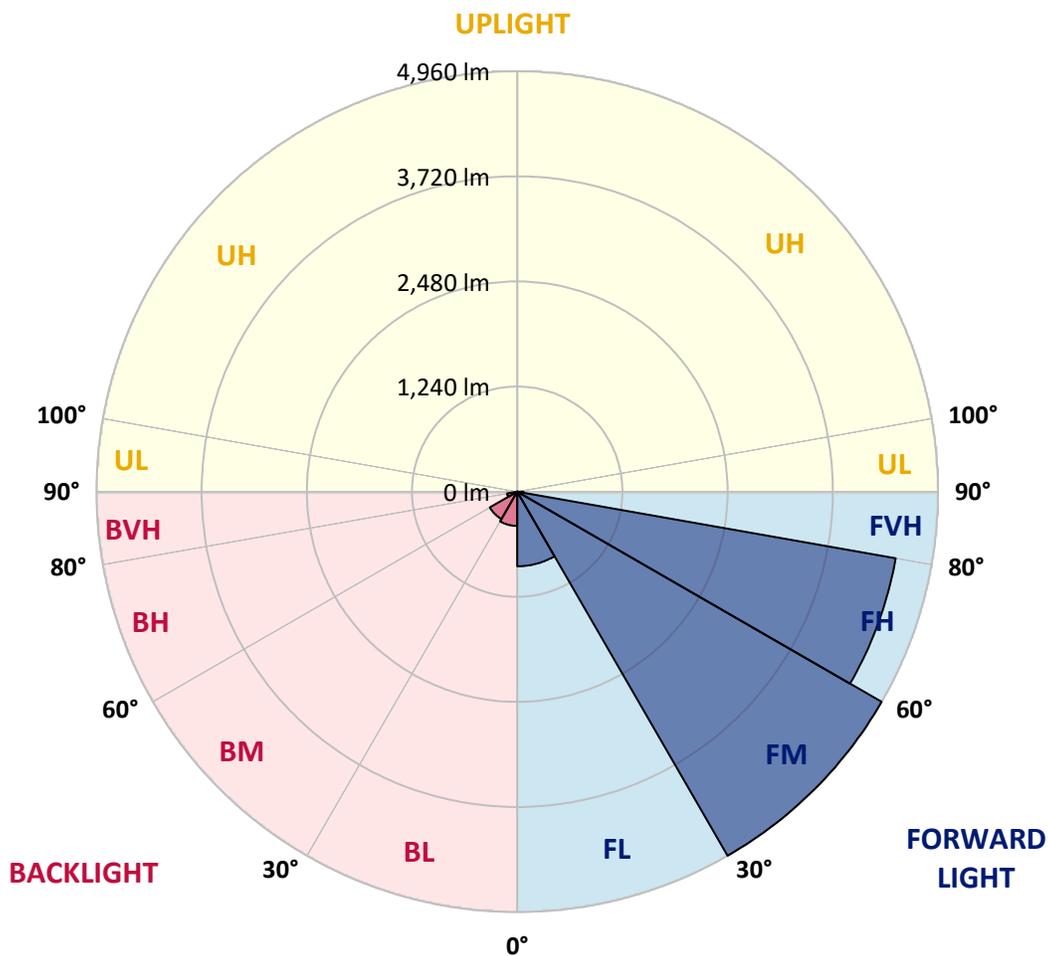
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	879.9	7.8			
FM	(30°-60°)	4960.2	43.7			
FH	(60°-80°)	4530.0	39.9			G2/5000
FVH	(80°-90°)	73.0	0.6			G1/100
BL	(0°-30°)	404.1	3.6	B1/500		
BM	(30°-60°)	372.3	3.3	B1/1000		
BH	(60°-80°)	120.3	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°	2187.2	2187.2	2187.2	2187.2	2187.2	2187.2	2187.2	2187.2	2187.2	2187.2	2187.2
2.5°	2123.0	2125.5	2134.7	2138.8	2148.5	2164.7	2172.9	2173.4	2186.6	2191.7	2195.8
5°	1972.8	1988.0	2003.3	2019.6	2049.2	2088.4	2127.1	2130.6	2173.4	2205.0	2221.8
7.5°	1843.4	1857.2	1875.5	1901.5	1943.2	2004.8	2069.5	2077.2	2158.1	2229.9	2267.6
10°	1710.5	1721.7	1748.2	1786.4	1843.9	1926.4	2013.5	2026.2	2144.4	2263.5	2329.7
12.5°	1568.4	1575.1	1607.1	1662.1	1746.7	1851.6	1966.1	1983.0	2135.7	2302.2	2403.1
15°	1460.5	1463.5	1494.1	1551.1	1647.9	1784.3	1929.5	1949.9	2137.8	2348.6	2483.0
17.5°	1433.0	1434.5	1450.8	1490.0	1575.6	1724.3	1900.5	1925.4	2143.9	2393.9	2563.5
20°	1544.5	1533.8	1517.0	1510.9	1547.6	1688.1	1883.1	1911.1	2152.0	2434.1	2635.8
22.5°	1850.6	1819.0	1749.2	1656.0	1599.5	1690.7	1887.7	1915.7	2178.0	2483.5	2719.3
25°	2304.8	2261.0	2142.3	1959.0	1782.8	1764.0	1925.9	1954.4	2228.4	2542.6	2799.2
27.5°	2821.7	2778.4	2633.2	2371.5	2071.0	1909.1	2013.5	2040.0	2303.3	2595.0	2860.4
30°	3316.6	3304.4	3133.3	2835.9	2433.6	2144.4	2126.6	2149.0	2358.8	2626.6	2908.7
32.5°	3736.2	3716.9	3579.4	3290.1	2848.6	2427.0	2259.5	2266.1	2400.5	2667.4	2971.9
35°	4125.3	4101.4	3980.7	3707.2	3274.4	2772.3	2464.2	2454.5	2491.7	2749.3	3063.5
37.5°	4464.9	4486.8	4352.9	4092.7	3656.3	3131.3	2740.2	2711.2	2634.3	2882.8	3196.5
40°	4749.1	4749.1	4679.3	4462.4	4068.8	3502.5	3052.3	3014.1	2848.6	3088.5	3365.0
42.5°	4851.5	4873.4	4899.3	4776.6	4438.0	3888.5	3400.1	3360.4	3150.6	3380.3	3577.9
45°	4857.6	4892.2	5025.1	5024.6	4771.5	4271.9	3792.3	3773.4	3537.6	3755.1	3841.6
47.5°	4771.5	4814.8	5033.8	5158.0	5035.8	4628.9	4221.0	4197.6	3992.4	4214.4	4117.7
50°	4638.6	4686.5	4941.1	5210.5	5215.6	4939.6	4672.7	4637.6	4493.0	4739.4	4402.8
52.5°	4400.8	4493.5	4858.1	5222.7	5333.7	5207.9	5102.5	5087.2	5053.1	5245.1	4629.9
55°	3892.1	3994.9	4649.8	5226.8	5443.2	5445.7	5505.3	5509.4	5578.1	5717.7	4799.0
57.5°	3651.7	3709.8	4286.2	5246.1	5605.6	5715.6	5915.8	5947.3	6053.8	6166.3	4992.0
60°	3500.5	3569.2	4107.0	5219.6	5860.8	6069.5	6296.1	6306.8	6420.9	6629.2	5253.2
62.5°	3379.8	3447.5	3993.9	5117.8	6147.5	6495.3	6667.9	6668.9	6754.5	7180.7	5550.1
65°	3081.9	3138.9	3765.3	5003.2	6336.9	6916.4	7099.7	7093.1	7162.9	7762.2	5894.9
67.5°	2651.1	2694.9	3298.3	4568.8	6265.6	7299.3	7751.5	7729.6	7645.1	8264.8	6030.3
70°	2049.7	2065.4	2599.6	3807.5	5597.5	7446.5	8381.5	8370.3	7941.0	8174.7	5533.8
71°	1694.2	1746.2	2291.0	3360.4	5149.9	7310.5	8442.6	8449.2	7866.6	7929.3	5192.1
72.5°	983.8	1028.1	1660.6	2580.8	4372.3	6743.3	8125.8	8173.7	7519.3	7212.3	4434.9
75°	210.8	225.6	615.7	1249.1	2405.1	4726.2	6413.8	6584.4	6128.6	4906.5	2673.0
77.5°	146.7	158.4	263.8	566.8	794.9	2335.3	3984.2	4176.7	3661.4	1843.9	855.5
80°	116.1	129.3	205.7	280.1	214.9	753.2	1866.3	1984.0	1221.1	411.5	144.1
82.5°	64.7	76.9	160.4	151.2	82.5	143.1	522.5	590.7	244.4	83.0	34.1
85°	18.8	22.9	103.4	110.0	35.1	27.5	89.1	110.5	46.3	21.9	15.3
87.5°	0.0	0.0	49.9	42.3	10.2	4.1	8.1	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°	2187.2	2187.2	2187.2	2187.2	2187.2	2187.2	2187.2	2187.2	2187.2	2187.2	2187.2
2.5°	2195.8	2199.4	2186.6	2169.8	2152.0	2130.1	2107.2	2089.4	2088.9	2080.2	2071.6
5°	2222.8	2220.8	2185.6	2132.2	2069.0	2003.3	1940.7	1869.9	1846.5	1817.4	1807.8
7.5°	2272.7	2258.4	2184.1	2067.0	1928.5	1791.0	1648.9	1505.8	1444.7	1389.7	1380.0
10°	2335.3	2308.3	2174.4	1969.2	1715.1	1461.5	1247.1	1052.6	967.0	901.3	898.3
12.5°	2400.5	2359.3	2147.4	1821.5	1435.5	1079.1	832.1	640.6	569.3	523.5	527.6
15°	2468.8	2407.1	2089.4	1622.4	1117.3	732.3	511.3	398.7	370.2	358.5	361.6
17.5°	2538.5	2440.2	2008.4	1382.6	803.1	472.6	353.9	322.3	322.3	324.9	325.9
20°	2599.1	2458.1	1889.3	1113.7	544.4	344.2	309.6	305.0	307.6	311.7	312.2
22.5°	2659.2	2459.1	1733.9	841.3	380.9	301.5	294.8	292.8	294.3	298.9	299.4
25°	2708.1	2446.9	1539.4	598.3	304.0	284.2	281.1	280.1	281.1	286.7	286.7
27.5°	2728.0	2402.6	1302.1	420.6	272.4	264.8	263.8	264.8	266.3	270.4	270.9
30°	2730.0	2325.2	1043.4	304.5	247.0	238.8	240.9	244.4	242.9	241.9	242.9
32.5°	2735.1	2235.5	791.3	250.5	225.6	212.9	210.3	210.3	204.2	200.6	198.6
35°	2751.9	2130.1	573.9	225.1	203.7	188.9	179.2	168.0	156.3	150.2	148.7
37.5°	2778.4	2019.6	411.0	208.3	184.3	167.5	149.2	129.3	112.5	108.0	108.0
40°	2826.7	1905.5	304.0	195.0	169.1	148.2	120.7	94.7	79.4	76.9	76.9
42.5°	2903.1	1785.4	242.4	183.3	155.8	128.3	92.2	68.7	57.5	56.0	55.5
45°	2982.6	1653.0	211.8	172.1	141.6	105.4	68.2	50.9	44.3	42.8	42.8
47.5°	3062.0	1511.9	197.1	161.4	127.8	82.0	50.9	40.2	37.2	37.2	37.7
50°	3129.2	1364.7	186.4	149.7	110.0	62.1	40.2	34.1	33.1	35.1	35.6
52.5°	3146.0	1220.1	173.1	134.9	88.1	47.4	33.1	30.0	30.0	30.0	30.0
55°	3135.9	1108.1	155.8	116.6	65.2	37.7	28.5	26.5	26.0	26.0	26.0
57.5°	3170.5	1041.9	124.8	90.6	46.8	30.6	25.0	23.4	22.4	21.9	21.9
60°	3240.2	998.6	89.1	65.2	35.1	25.5	21.4	19.9	18.3	17.3	17.3
62.5°	3332.9	960.9	66.2	48.4	27.0	20.4	17.8	16.3	14.3	13.2	13.2
65°	3404.2	893.7	50.4	36.2	20.4	16.3	13.7	13.2	10.2	9.2	8.7
67.5°	3295.2	746.0	40.7	26.5	15.3	12.7	10.7	10.2	6.1	5.1	5.1
70°	2826.2	519.4	32.6	19.4	11.2	10.2	8.7	6.6	4.6	4.1	4.1
71°	2563.0	433.9	29.5	16.3	9.7	9.7	8.1	5.6	4.1	3.6	3.6
72.5°	2129.1	308.1	25.0	12.7	8.7	10.2	8.7	5.1	4.1	3.6	3.1
75°	1235.9	128.8	17.3	8.7	6.6	12.2	11.2	4.6	3.1	2.5	2.5
77.5°	371.7	47.4	9.7	5.6	5.1	10.7	12.7	4.1	1.5	0.5	0.5
80°	67.7	20.4	6.1	3.6	3.6	6.6	9.7	2.0	0.0	0.0	0.0
82.5°	23.9	10.2	3.6	2.0	1.5	3.1	4.6	0.0	0.0	0.0	0.0
85°	13.7	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)