

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: P1209651

Luminaire Tested: UPW-SA2-130-827-U-T3R-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209651
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-SA2-130-827-U-T3R-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 80 CRI, 2700K, 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: 9156 lumens
Efficiency: N/A
Efficacy: 71.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

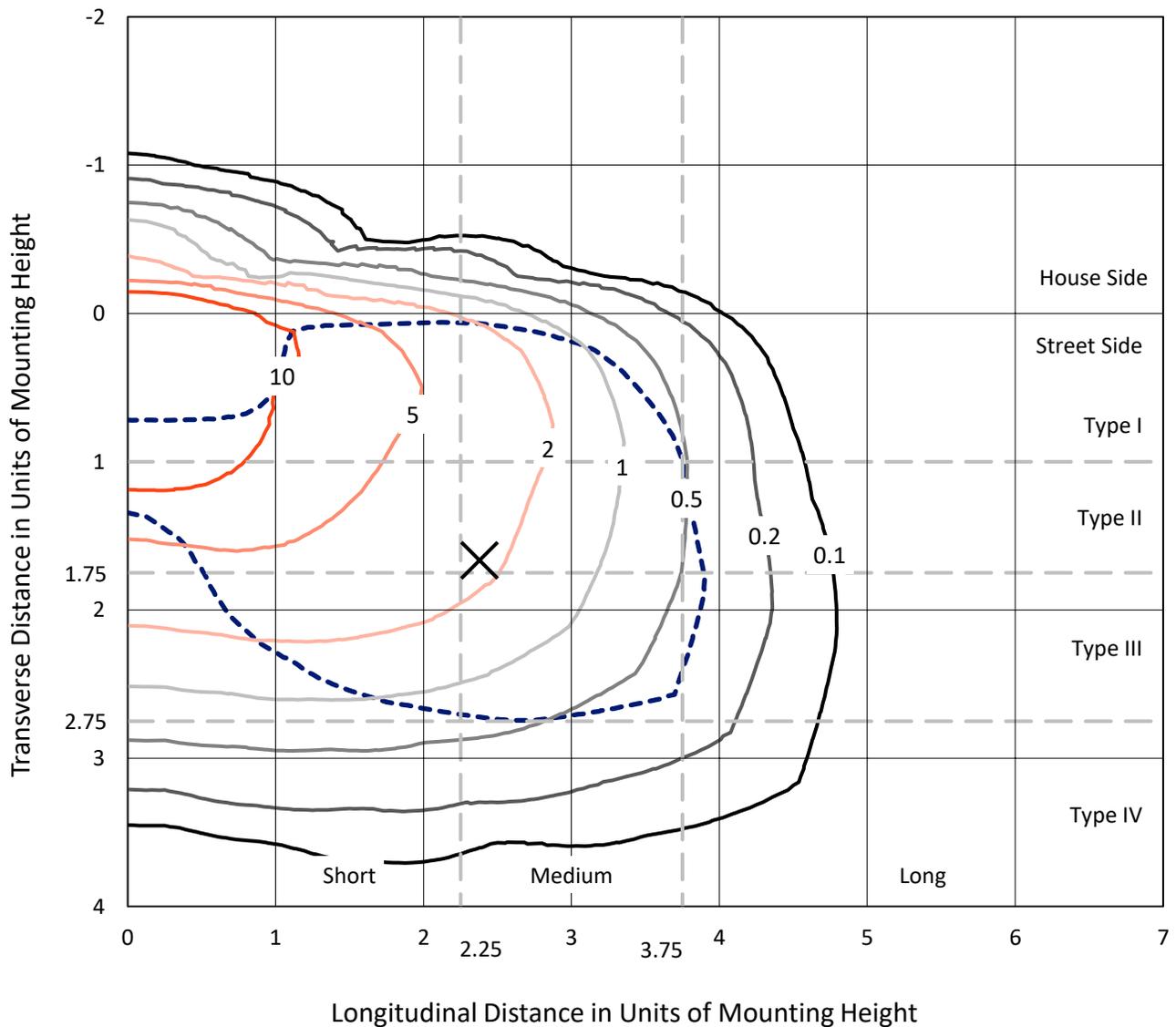
Input Watts (W): 128
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

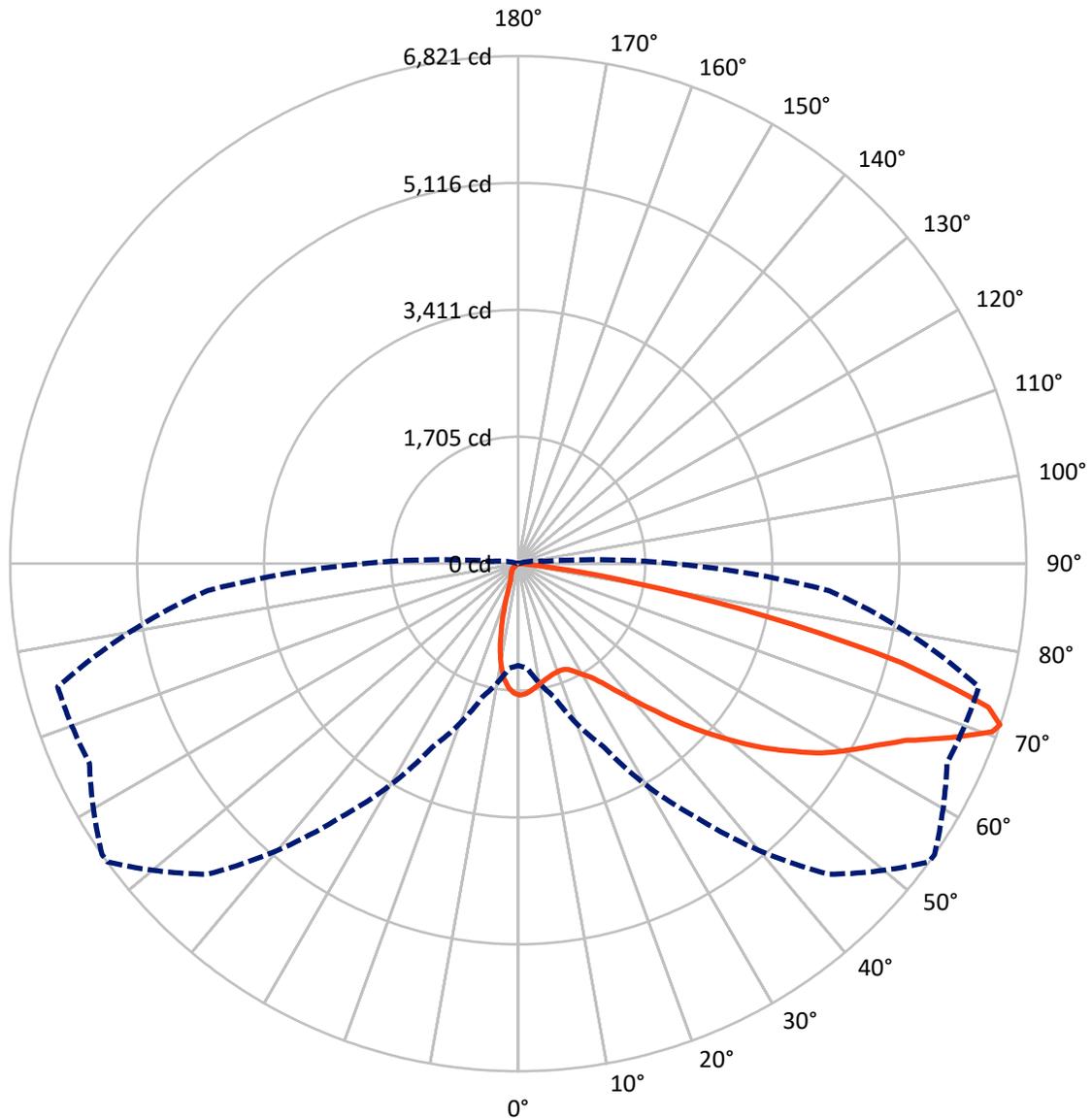
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.1 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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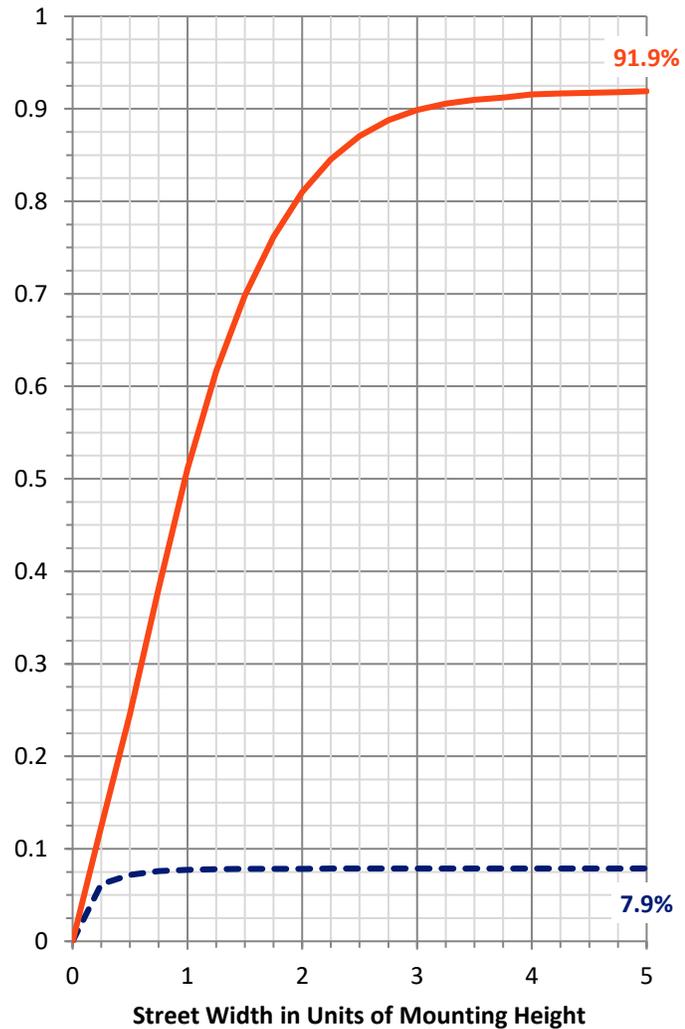
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	724.9	0.0	724.9
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	8431.1	0.0	8431.1
	% Fixture	92.1	0.0	92.1
Total	Lumens	9156.0	0.0	9156.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.6	1.6
10°-20°	339.9	3.7
20°-30°	546.2	6.0
30°-40°	928.0	10.1
40°-50°	1440.4	15.7
50°-60°	1936.6	21.2
60°-70°	2369.1	25.9
70°-80°	1385.2	15.1
80°-90°	59.9	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°	9156.0	100.0
0°-180°	9156.0	100.0



--- HS — SS

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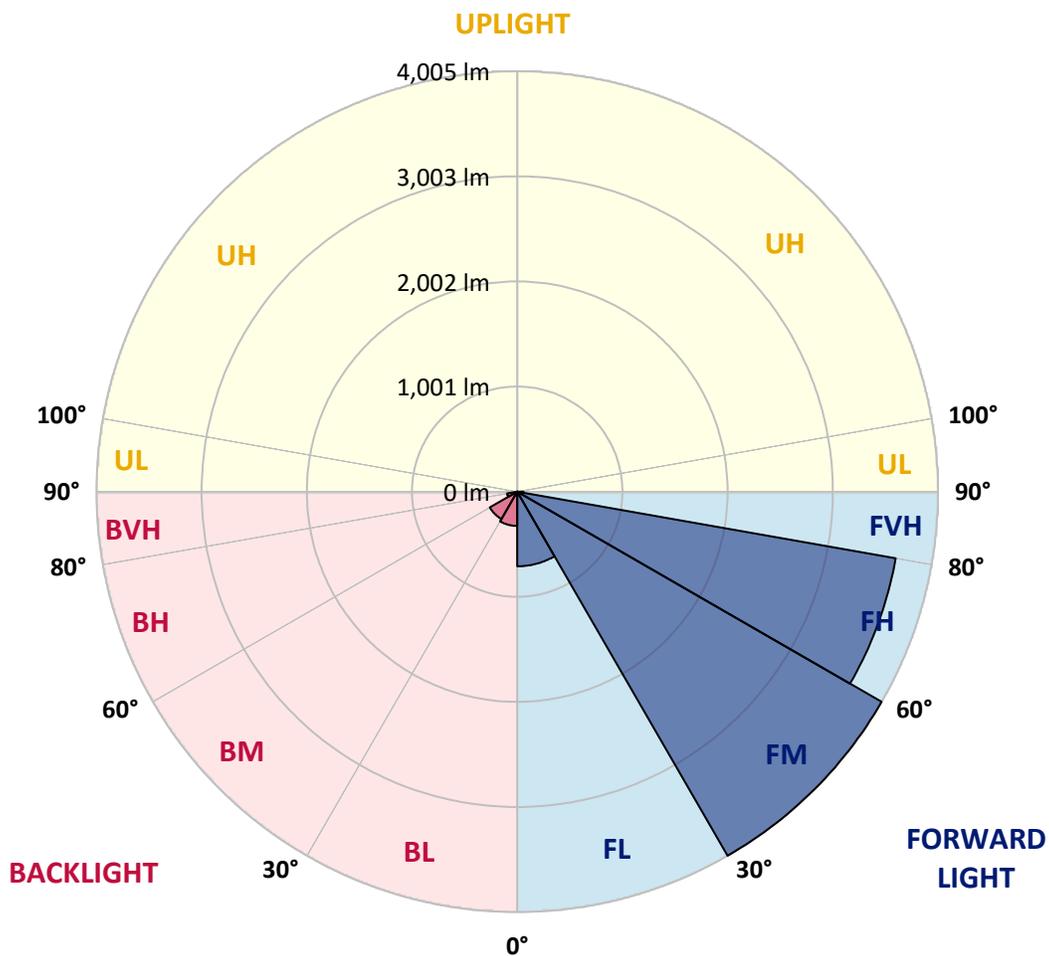
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	710.4	7.8			
FM	(30°-60°)	4004.6	43.7			
FH	(60°-80°)	3657.2	39.9			G2/5000
FVH	(80°-90°)	58.9	0.6			G1/100
BL	(0°-30°)	326.3	3.6	B1/500		
BM	(30°-60°)	300.6	3.3	B1/1000		
BH	(60°-80°)	97.1	1.1	B0/110		G0/110
BVH	(80°-90°)	0.9	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°	1765.8	1765.8	1765.8	1765.8	1765.8	1765.8	1765.8	1765.8	1765.8	1765.8	1765.8
2.5°	1714.0	1716.0	1723.4	1726.7	1734.5	1747.7	1754.3	1754.7	1765.4	1769.5	1772.8
5°	1592.7	1605.0	1617.4	1630.5	1654.4	1686.0	1717.3	1720.1	1754.7	1780.2	1793.7
7.5°	1488.3	1499.4	1514.2	1535.1	1568.8	1618.6	1670.8	1677.0	1742.3	1800.3	1830.7
10°	1381.0	1390.0	1411.4	1442.2	1488.7	1555.3	1625.6	1635.9	1731.2	1827.4	1880.9
12.5°	1266.3	1271.6	1297.5	1341.9	1410.1	1494.8	1587.3	1600.9	1724.2	1858.7	1940.1
15°	1179.1	1181.6	1206.2	1252.3	1330.4	1440.6	1557.7	1574.2	1725.9	1896.1	2004.6
17.5°	1156.9	1158.1	1171.3	1202.9	1272.0	1392.1	1534.3	1554.5	1730.8	1932.7	2069.6
20°	1246.9	1238.3	1224.7	1219.8	1249.4	1362.9	1520.3	1542.9	1737.4	1965.2	2128.0
22.5°	1494.0	1468.5	1412.2	1337.0	1291.3	1364.9	1524.0	1546.6	1758.4	2005.0	2195.4
25°	1860.7	1825.4	1729.6	1581.6	1439.3	1424.1	1554.9	1577.9	1799.1	2052.7	2259.9
27.5°	2278.0	2243.1	2125.9	1914.6	1672.0	1541.3	1625.6	1647.0	1859.5	2095.1	2309.3
30°	2677.6	2667.8	2529.6	2289.5	1964.8	1731.2	1716.8	1734.9	1904.3	2120.6	2348.3
32.5°	3016.4	3000.8	2889.8	2656.3	2299.8	1959.4	1824.1	1829.5	1938.0	2153.5	2399.3
35°	3330.5	3311.2	3213.7	2993.0	2643.5	2238.1	1989.4	1981.6	2011.6	2219.6	2473.3
37.5°	3604.7	3622.4	3514.3	3304.2	2951.9	2528.0	2212.2	2188.8	2126.7	2327.4	2580.6
40°	3834.1	3834.1	3777.8	3602.7	3284.9	2827.7	2464.3	2433.4	2299.8	2493.5	2716.7
42.5°	3916.8	3934.4	3955.4	3856.3	3582.9	3139.3	2745.1	2713.0	2543.6	2729.0	2888.5
45°	3921.7	3949.6	4056.9	4056.5	3852.2	3448.9	3061.6	3046.4	2856.1	3031.6	3101.5
47.5°	3852.2	3887.2	4063.9	4164.3	4065.6	3737.1	3407.8	3388.9	3223.2	3402.4	3324.3
50°	3744.9	3783.6	3989.1	4206.6	4210.7	3987.9	3772.5	3744.1	3627.3	3826.3	3554.6
52.5°	3552.9	3627.7	3922.1	4216.5	4306.1	4204.5	4119.4	4107.1	4079.6	4234.6	3737.9
55°	3142.2	3225.2	3754.0	4219.8	4394.5	4396.5	4444.6	4447.9	4503.4	4616.1	3874.4
57.5°	2948.2	2995.0	3460.4	4235.4	4525.6	4614.4	4776.0	4801.5	4887.4	4978.3	4030.2
60°	2826.1	2881.6	3315.7	4214.0	4731.6	4900.2	5083.1	5091.7	5183.8	5352.0	4241.1
62.5°	2728.6	2783.3	3224.4	4131.8	4963.1	5243.9	5383.2	5384.0	5453.1	5797.2	4480.8
65°	2488.1	2534.2	3039.8	4039.3	5116.0	5583.9	5731.9	5726.5	5782.8	6266.7	4759.1
67.5°	2140.3	2175.7	2662.8	3688.6	5058.4	5893.0	6258.1	6240.4	6172.2	6672.5	4868.5
70°	1654.8	1667.5	2098.8	3074.0	4519.0	6011.8	6766.7	6757.6	6411.0	6599.7	4467.7
71°	1367.8	1409.7	1849.6	2713.0	4157.7	5902.1	6816.0	6821.3	6351.0	6401.6	4191.8
72.5°	794.3	830.1	1340.7	2083.6	3529.9	5444.1	6560.3	6598.9	6070.6	5822.7	3580.5
75°	170.2	182.1	497.0	1008.5	1941.7	3815.6	5178.1	5315.8	4947.8	3961.2	2158.0
77.5°	118.4	127.9	213.0	457.6	641.8	1885.4	3216.6	3372.0	2956.0	1488.7	690.7
80°	93.7	104.4	166.1	226.1	173.5	608.0	1506.8	1601.7	985.9	332.2	116.3
82.5°	52.2	62.1	129.5	122.1	66.6	115.5	421.8	476.9	197.3	67.0	27.5
85°	15.2	18.5	83.5	88.8	28.4	22.2	71.9	89.2	37.4	17.7	12.3
87.5°	0.0	0.0	40.3	34.1	8.2	3.3	6.6	7.4	7.4	7.4	8.2
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°	1765.8	1765.8	1765.8	1765.8	1765.8	1765.8	1765.8	1765.8	1765.8	1765.8	1765.8
2.5°	1772.8	1775.6	1765.4	1751.8	1737.4	1719.7	1701.2	1686.8	1686.4	1679.4	1672.4
5°	1794.5	1792.9	1764.5	1721.4	1670.4	1617.4	1566.8	1509.6	1490.7	1467.3	1459.5
7.5°	1834.8	1823.3	1763.3	1668.7	1556.9	1445.9	1331.2	1215.7	1166.4	1122.0	1114.1
10°	1885.4	1863.6	1755.5	1589.8	1384.7	1179.9	1006.8	849.8	780.7	727.7	725.2
12.5°	1938.0	1904.7	1733.7	1470.6	1159.0	871.2	671.8	517.2	459.6	422.6	425.9
15°	1993.1	1943.4	1686.8	1309.8	902.0	591.2	412.8	321.9	298.9	289.4	291.9
17.5°	2049.4	1970.1	1621.5	1116.2	648.3	381.5	285.7	260.2	260.2	262.3	263.1
20°	2098.4	1984.5	1525.3	899.1	439.5	277.9	250.0	246.3	248.3	251.6	252.0
22.5°	2146.9	1985.3	1399.9	679.2	307.5	243.4	238.0	236.4	237.6	241.3	241.7
25°	2186.3	1975.4	1242.8	483.1	245.4	229.4	226.9	226.1	226.9	231.5	231.5
27.5°	2202.4	1939.7	1051.2	339.6	220.0	213.8	213.0	213.8	215.0	218.3	218.7
30°	2204.0	1877.2	842.4	245.9	199.4	192.8	194.5	197.3	196.1	195.3	196.1
32.5°	2208.1	1804.8	638.9	202.3	182.1	171.8	169.8	169.8	164.9	162.0	160.3
35°	2221.7	1719.7	463.3	181.7	164.4	152.5	144.7	135.7	126.2	121.3	120.0
37.5°	2243.1	1630.5	331.8	168.1	148.8	135.3	120.5	104.4	90.9	87.2	87.2
40°	2282.1	1538.4	245.4	157.5	136.5	119.6	97.4	76.5	64.1	62.1	62.1
42.5°	2343.8	1441.4	195.7	148.0	125.8	103.6	74.4	55.5	46.5	45.2	44.8
45°	2407.9	1334.5	171.0	139.0	114.3	85.1	55.1	41.1	35.8	34.5	34.5
47.5°	2472.1	1220.6	159.1	130.3	103.2	66.2	41.1	32.5	30.0	30.0	30.4
50°	2526.3	1101.8	150.5	120.9	88.8	50.2	32.5	27.5	26.7	28.4	28.8
52.5°	2539.9	985.0	139.8	108.9	71.1	38.2	26.7	24.3	24.3	24.3	24.3
55°	2531.7	894.6	125.8	94.1	52.6	30.4	23.0	21.4	21.0	21.0	21.0
57.5°	2559.6	841.2	100.7	73.2	37.8	24.7	20.1	18.9	18.1	17.7	17.7
60°	2616.0	806.2	71.9	52.6	28.4	20.6	17.3	16.0	14.8	14.0	14.0
62.5°	2690.8	775.8	53.4	39.1	21.8	16.4	14.4	13.2	11.5	10.7	10.7
65°	2748.3	721.5	40.7	29.2	16.4	13.2	11.1	10.7	8.2	7.4	7.0
67.5°	2660.4	602.3	32.9	21.4	12.3	10.3	8.6	8.2	4.9	4.1	4.1
70°	2281.7	419.3	26.3	15.6	9.0	8.2	7.0	5.3	3.7	3.3	3.3
71°	2069.2	350.3	23.8	13.2	7.8	7.8	6.6	4.5	3.3	2.9	2.9
72.5°	1718.9	248.7	20.1	10.3	7.0	8.2	7.0	4.1	3.3	2.9	2.5
75°	997.8	104.0	14.0	7.0	5.3	9.9	9.0	3.7	2.5	2.1	2.1
77.5°	300.1	38.2	7.8	4.5	4.1	8.6	10.3	3.3	1.2	0.4	0.4
80°	54.7	16.4	4.9	2.9	2.9	5.3	7.8	1.6	0.0	0.0	0.0
82.5°	19.3	8.2	2.9	1.6	1.2	2.5	3.7	0.0	0.0	0.0	0.0
85°	11.1	5.8	1.6	0.8	0.0	0.4	0.8	0.0	0.0	0.0	0.0
87.5°	7.4	1.6	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)