

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: P1208757

Luminaire Tested: UPW-SA2-070-727-U-T2R

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1208757
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/19/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-070-727-U-T2R
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8473 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
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

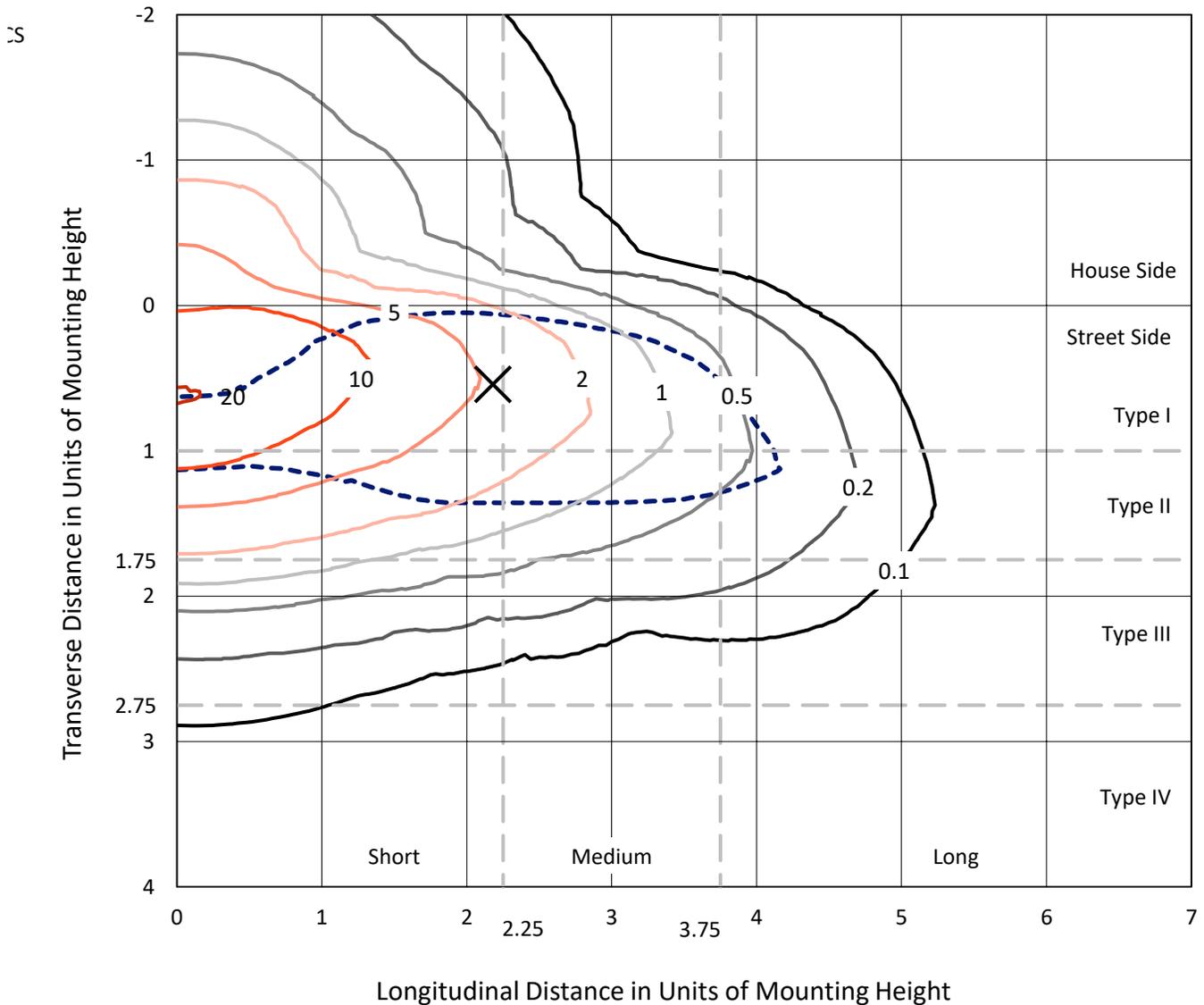


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

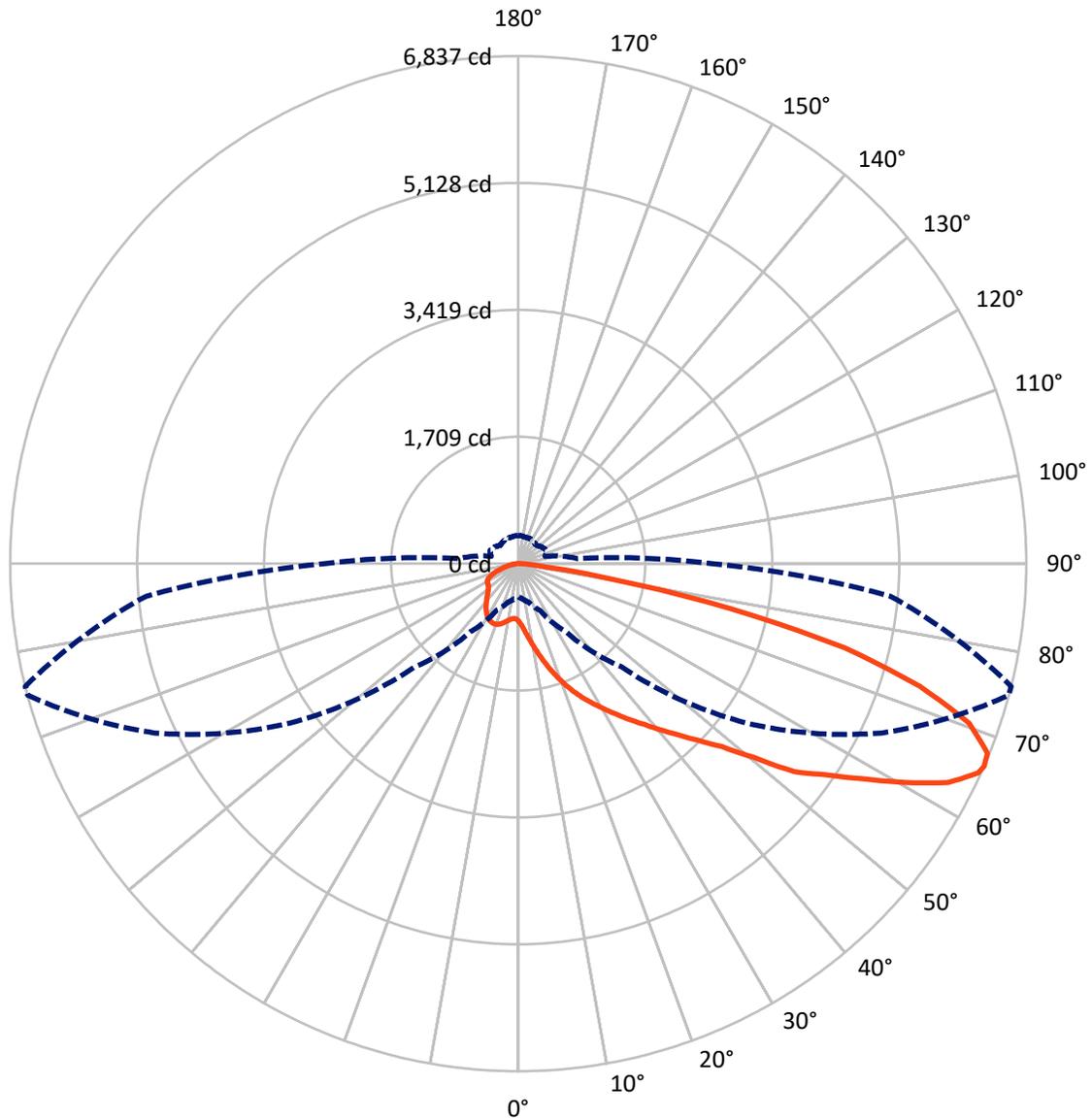


Based on 10 foot mounting height. Maximum calculated value = 20.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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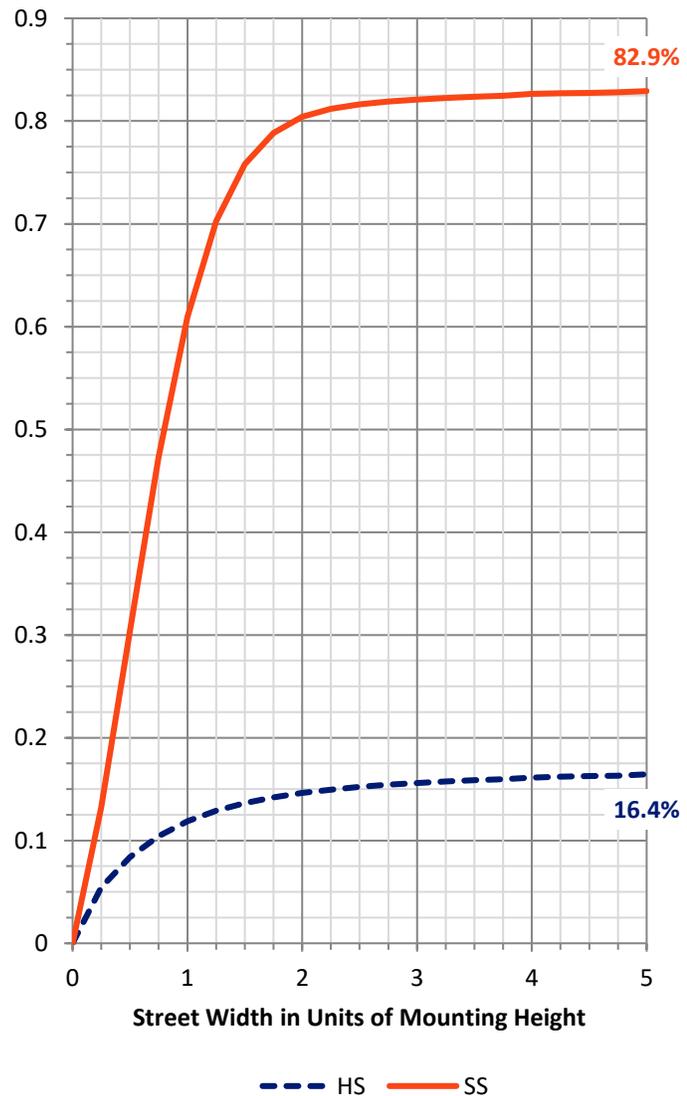
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1425.7	0.0	1425.7
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	7047.3	0.0	7047.3
	% Fixture	83.2	0.0	83.2
Total	Lumens	8473.0	0.0	8473.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.6	1.1
10°-20°	369.5	4.4
20°-30°	718.0	8.5
30°-40°	1172.0	13.8
40°-50°	1601.2	18.9
50°-60°	1865.1	22.0
60°-70°	1672.1	19.7
70°-80°	845.0	10.0
80°-90°	136.5	1.6
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°	8473.0	100.0
0°-180°	8473.0	100.0



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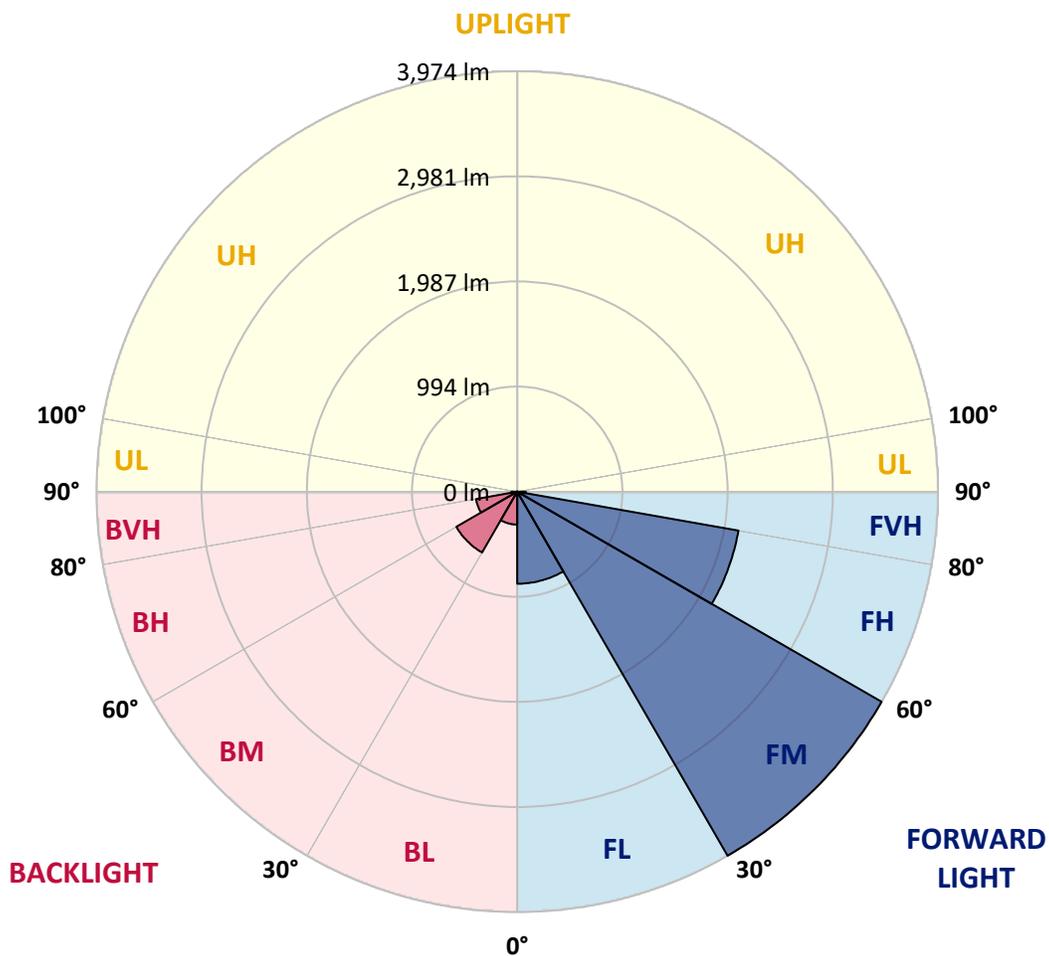
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	870.2	10.3			
FM (30°-60°)	3974.4	46.9			
FH (60°-80°)	2122.1	25.0			G2/5000
FVH (80°-90°)	80.6	1.0			G1/100
BL (0°-30°)	311.0	3.7	B1/500		
BM (30°-60°)	663.9	7.8	B1/1000		
BH (60°-80°)	395.0	4.7	B1/500		G1/500
BVH (80°-90°)	55.9	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	773.8	773.8	773.8	773.8	773.8	773.8	773.8	773.8	773.8	773.8	773.8
2.5°	1027.2	1011.7	1010.2	987.5	982.3	938.9	907.0	873.6	835.6	828.1	798.2
5°	1319.4	1318.0	1298.2	1261.1	1232.0	1157.8	1084.4	1006.8	921.6	907.8	840.5
7.5°	1582.4	1580.1	1564.8	1524.8	1482.8	1391.6	1286.9	1167.9	1029.8	1009.4	897.8
10°	1782.0	1781.1	1775.9	1746.6	1710.9	1623.5	1507.9	1345.3	1155.5	1127.6	969.4
12.5°	1936.2	1937.9	1941.3	1931.0	1914.0	1839.5	1721.0	1533.5	1289.5	1261.9	1049.1
15°	2040.6	2045.8	2063.6	2078.3	2087.2	2041.4	1926.7	1725.9	1439.7	1406.6	1137.4
17.5°	2093.2	2099.0	2129.8	2174.1	2214.9	2210.3	2119.1	1909.4	1583.8	1551.9	1232.3
20°	2138.7	2143.0	2177.5	2230.7	2302.9	2334.8	2283.6	2086.0	1741.7	1703.7	1333.0
22.5°	2270.4	2275.9	2286.2	2316.4	2380.3	2439.0	2414.2	2253.2	1886.4	1851.0	1428.5
25°	2524.7	2531.3	2508.9	2483.3	2495.4	2536.2	2540.8	2405.6	2033.1	1993.1	1531.2
27.5°	2831.0	2840.5	2802.3	2736.4	2678.9	2663.1	2657.6	2530.4	2173.2	2126.9	1632.7
30°	3131.1	3147.5	3097.7	3012.3	2906.7	2832.5	2777.5	2652.7	2311.3	2267.0	1728.5
32.5°	3424.2	3417.6	3345.4	3261.9	3138.3	3045.3	2912.4	2783.9	2466.6	2415.7	1823.7
35°	3625.0	3627.3	3560.2	3461.3	3343.3	3272.0	3093.1	2925.4	2625.1	2578.2	1931.9
37.5°	3795.8	3785.2	3709.2	3616.9	3515.4	3484.9	3304.5	3081.3	2796.8	2745.6	2046.9
40°	3852.8	3840.4	3790.6	3724.2	3642.8	3640.2	3537.8	3257.9	2991.0	2940.3	2176.6
42.5°	3818.3	3802.4	3782.0	3763.9	3738.9	3750.4	3757.0	3465.0	3204.4	3147.7	2326.8
45°	3690.8	3667.0	3681.3	3720.7	3775.1	3840.1	3954.9	3694.3	3443.4	3396.0	2503.1
47.5°	3494.9	3473.4	3518.2	3602.5	3750.4	3914.9	4142.1	3947.4	3728.8	3681.6	2754.2
50°	3219.4	3225.7	3289.8	3443.2	3666.7	3949.4	4372.8	4282.5	4143.6	4099.6	3096.8
52.5°	2767.2	2768.3	2949.0	3200.7	3518.2	3931.6	4500.8	4710.8	4710.0	4656.8	3423.0
55°	2347.2	2372.8	2515.8	2850.3	3277.8	3860.3	4590.3	4919.1	5081.9	5019.5	3727.1
57.5°	1937.0	1952.0	2087.5	2423.4	2934.6	3670.1	4682.1	5169.1	5510.5	5471.1	4105.0
60°	1470.5	1493.5	1633.6	1943.9	2495.6	3332.7	4690.7	5430.0	6022.8	5983.1	4527.0
62.5°	954.4	994.1	1125.3	1416.1	1964.6	2847.4	4490.5	5600.5	6508.3	6494.3	4901.5
65°	548.5	578.5	669.6	894.0	1355.4	2238.2	4014.4	5534.9	6807.2	6799.2	5041.6
66°	448.2	466.9	536.8	698.7	1118.4	1965.5	3737.7	5396.6	6836.8	6837.1	5025.5
67.5°	358.4	366.8	398.1	500.2	825.3	1557.9	3243.2	5091.4	6800.0	6810.1	4921.7
70°	296.6	300.9	310.7	335.4	450.5	939.5	2302.1	4298.3	6430.4	6438.2	4516.4
72.5°	266.1	268.7	272.4	275.9	317.9	525.0	1406.0	3438.6	5637.9	5648.0	3898.8
75°	241.0	242.5	241.9	242.2	266.7	334.5	726.6	2567.3	4558.7	4538.5	2986.7
77.5°	211.7	213.1	210.3	210.8	235.9	257.2	361.6	1797.2	3076.4	2934.3	1682.7
80°	178.9	180.1	178.9	180.9	205.4	194.2	210.3	1011.1	1360.3	1286.7	598.3
82.5°	135.2	140.1	143.5	151.6	169.1	138.1	140.7	393.8	414.2	394.4	183.5
85°	59.3	72.2	108.2	115.9	127.1	82.8	92.3	160.5	168.6	163.4	66.7
87.5°	15.5	17.0	53.5	67.3	70.5	37.4	48.0	73.1	77.1	73.1	22.1
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°	773.8	773.8	773.8	773.8	773.8	773.8	773.8	773.8	773.8	773.8	773.8
2.5°	782.4	768.3	743.0	720.6	703.6	692.1	680.6	674.8	671.4	667.9	668.5
5°	807.4	779.0	735.5	704.7	687.5	676.6	670.8	668.5	667.1	663.6	663.6
7.5°	845.1	804.8	745.0	713.4	699.9	691.5	688.1	686.9	685.2	681.2	681.7
10°	892.6	836.2	764.9	734.1	721.7	712.5	707.6	705.9	702.7	698.1	698.7
12.5°	948.4	875.0	791.0	758.8	743.9	731.5	723.4	718.5	713.1	707.0	707.3
15°	1009.4	917.3	819.2	781.0	760.5	743.3	730.3	722.0	713.4	705.9	705.6
17.5°	1071.2	958.2	840.8	793.0	765.4	742.7	725.2	712.2	701.6	692.4	691.5
20°	1137.9	995.0	852.9	791.9	756.2	729.2	705.9	689.8	678.0	668.8	667.3
22.5°	1205.8	1029.5	854.9	780.1	735.8	702.7	678.3	660.4	648.4	638.9	635.4
25°	1268.0	1056.2	846.6	757.4	707.3	671.7	647.8	629.7	619.9	608.7	605.2
27.5°	1324.6	1074.9	829.9	728.3	675.4	640.3	617.9	602.3	591.7	583.1	580.2
30°	1375.5	1085.0	802.5	693.8	642.6	610.7	591.7	581.1	571.8	560.9	558.9
32.5°	1423.9	1085.0	767.4	656.1	610.1	584.5	573.3	566.7	556.3	545.7	542.8
35°	1472.2	1078.4	726.0	616.7	580.2	565.8	565.2	557.5	541.6	527.3	523.5
37.5°	1523.1	1064.9	679.4	579.9	555.7	557.5	562.4	545.1	522.7	502.2	496.8
40°	1580.6	1046.2	631.1	548.0	535.3	553.7	554.6	527.3	483.5	464.8	460.0
42.5°	1648.2	1027.5	586.2	519.8	519.2	542.5	539.9	488.7	462.5	453.0	450.5
45°	1737.1	1016.8	543.7	493.0	506.6	524.4	514.9	467.4	456.5	451.0	448.7
47.5°	1877.2	1022.3	504.5	471.7	493.9	506.3	468.3	458.8	451.0	444.4	442.1
50°	2052.7	1019.1	472.9	457.1	479.5	487.3	447.3	447.6	443.6	436.1	432.6
52.5°	2184.7	994.4	452.5	448.7	466.9	453.6	434.1	436.7	434.6	423.7	420.0
55°	2312.1	973.1	442.1	445.6	457.6	411.6	418.5	424.9	422.8	412.2	410.5
57.5°	2470.6	969.1	435.8	446.4	449.9	390.6	403.6	411.9	410.5	405.9	405.0
60°	2664.8	970.2	430.0	447.9	441.3	375.1	389.5	400.1	401.0	400.1	399.5
62.5°	2771.5	938.9	415.7	443.8	426.0	361.6	374.8	390.3	390.6	392.4	392.1
65°	2680.9	845.1	388.9	429.7	400.4	350.4	362.2	379.1	374.8	382.6	382.6
66°	2592.9	791.0	375.7	420.5	389.5	346.0	358.1	373.4	367.9	378.5	378.5
67.5°	2413.1	699.9	351.8	401.0	373.9	340.0	353.5	363.9	356.4	372.2	371.1
70°	2084.6	541.4	303.8	356.7	348.3	331.1	347.2	344.9	334.0	358.1	353.5
72.5°	1757.5	411.3	243.9	298.6	309.5	319.9	338.3	320.7	306.9	323.9	313.8
75°	1363.7	309.2	192.7	232.1	261.5	302.3	327.6	292.8	273.0	271.3	265.8
77.5°	737.2	212.3	152.7	177.2	207.7	280.5	320.4	262.9	233.0	226.1	221.8
80°	292.0	138.1	111.0	134.3	145.3	248.8	303.2	228.1	192.1	185.2	178.6
82.5°	120.5	81.7	71.6	90.0	94.6	212.9	272.1	187.0	148.4	205.4	218.0
85°	51.8	44.9	42.6	46.6	53.5	149.3	216.6	142.7	160.2	143.0	113.6
87.5°	15.5	19.0	18.1	17.8	19.6	35.7	115.3	79.4	117.6	44.6	33.4
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)