

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: P1208028

Luminaire Tested: UPW-SA1-040-727-U-T2R

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1208028
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-SA1-040-727-U-T2R
Description: UNDERPASS WALL MOUNT LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5319 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 44
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

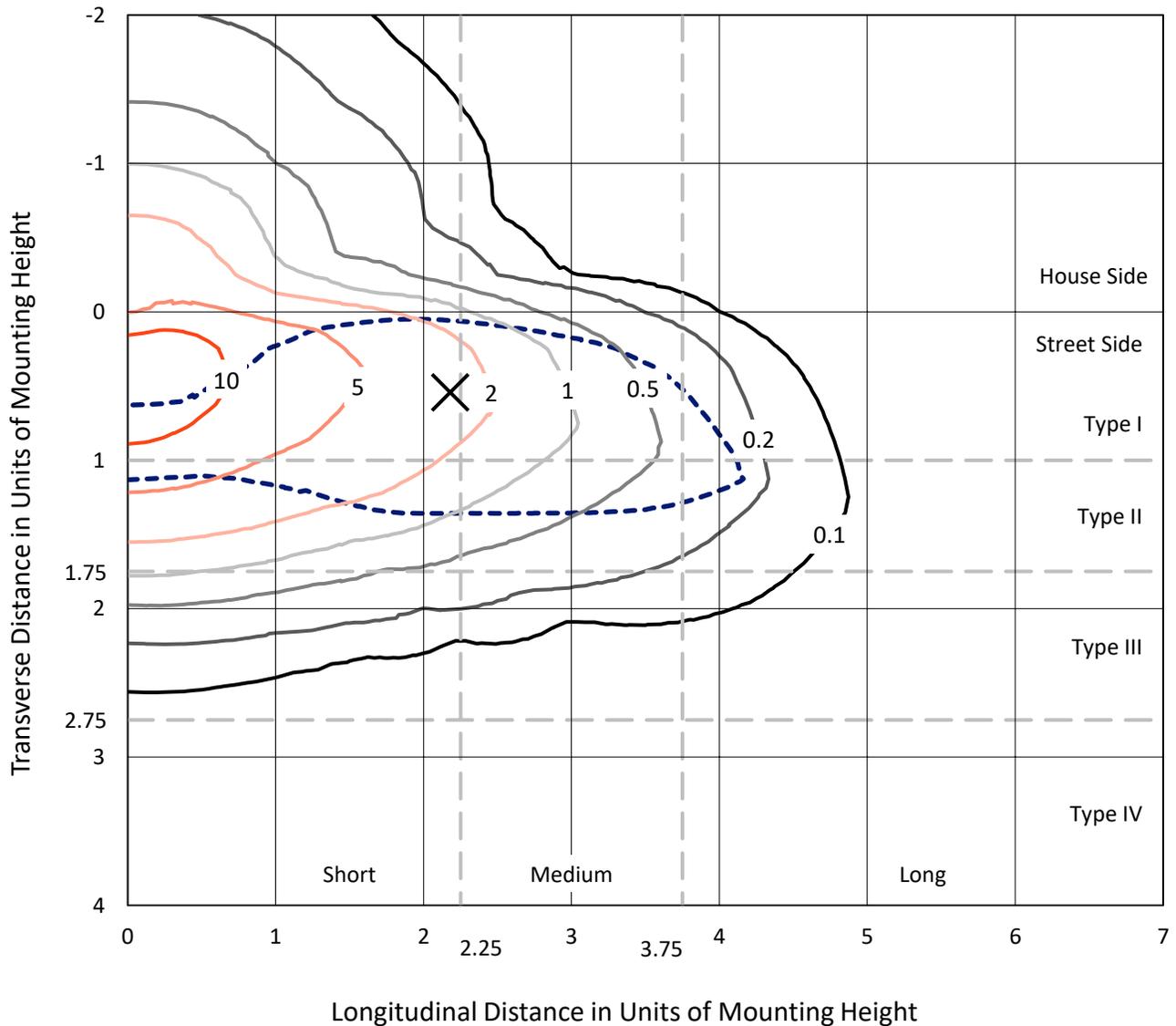


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Iso-Footcandle Lines of Horizontal Illumination

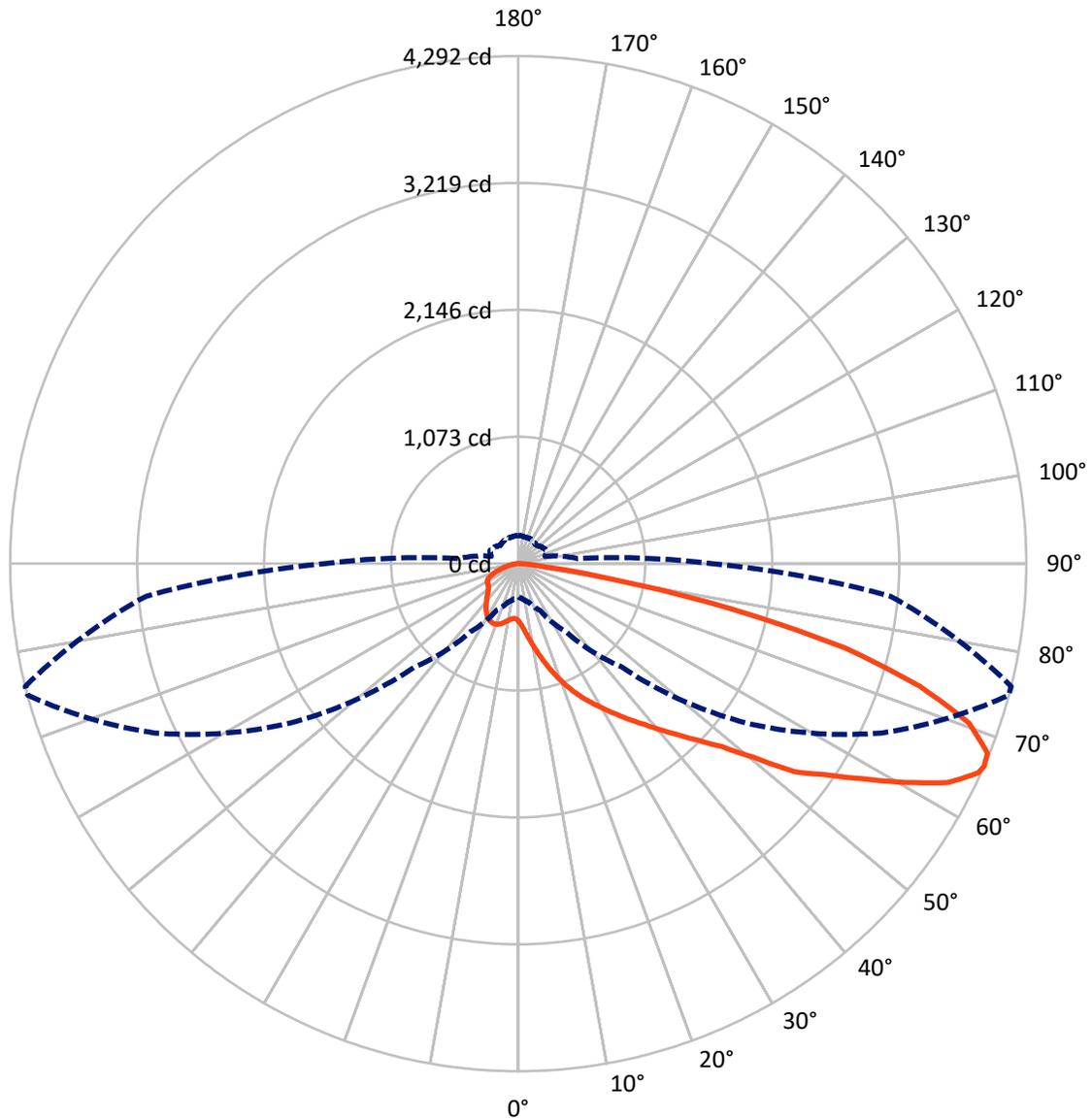
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.9 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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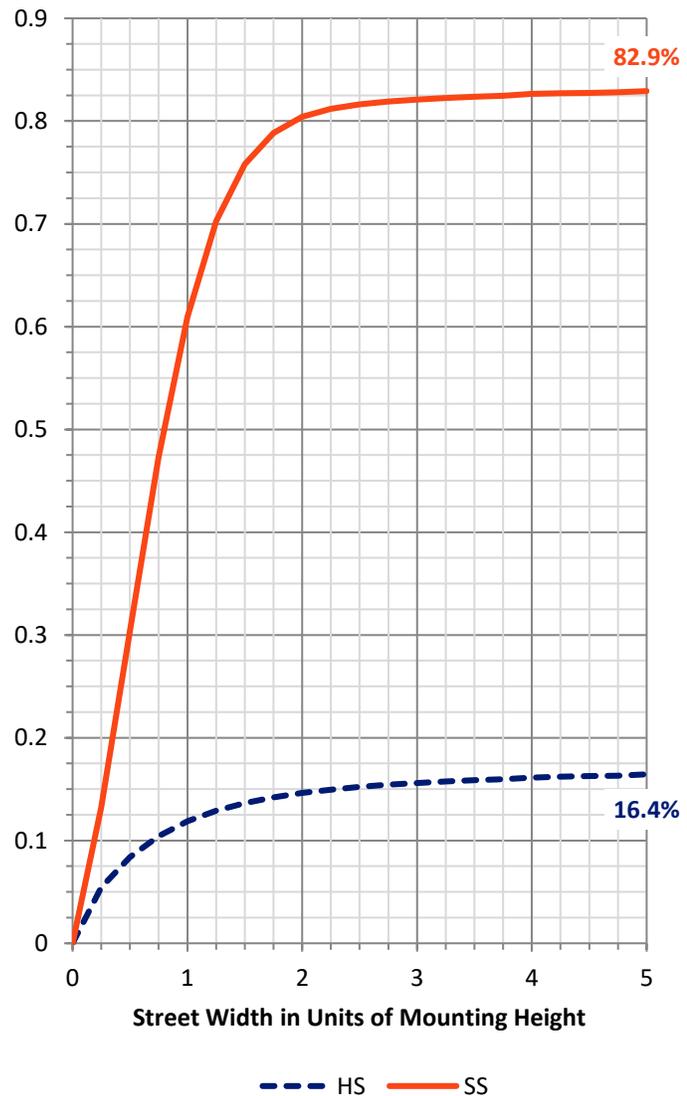
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	895.0	0.0	895.0
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	4424.0	0.0	4424.0
	% Fixture	83.2	0.0	83.2
Total	Lumens	5319.0	0.0	5319.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.7	1.1
10°-20°	232.0	4.4
20°-30°	450.8	8.5
30°-40°	735.7	13.8
40°-50°	1005.2	18.9
50°-60°	1170.8	22.0
60°-70°	1049.7	19.7
70°-80°	530.5	10.0
80°-90°	85.7	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°	5319.0	100.0
0°-180°	5319.0	100.0



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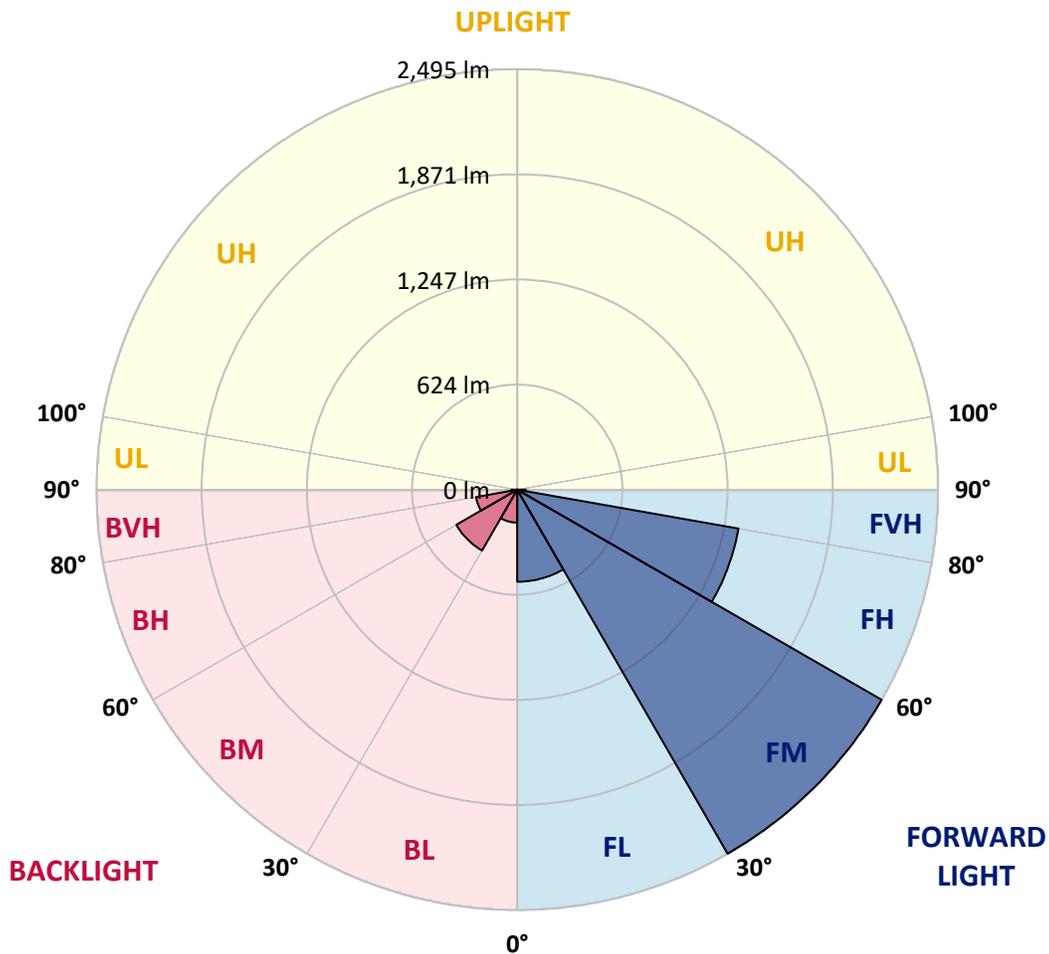
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	546.2	10.3			
FM	(30°-60°)	2495.0	46.9			
FH	(60°-80°)	1332.2	25.0			G1/1800
FVH	(80°-90°)	50.6	1.0			G1/100
BL	(0°-30°)	195.2	3.7	B1/500		
BM	(30°-60°)	416.8	7.8	B1/1000		
BH	(60°-80°)	248.0	4.7	B1/500		G1/500
BVH	(80°-90°)	35.1	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	485.7	485.7	485.7	485.7	485.7	485.7	485.7	485.7	485.7	485.7	485.7
2.5°	644.8	635.1	634.2	619.9	616.7	589.4	569.4	548.4	524.6	519.9	501.1
5°	828.3	827.4	814.9	791.6	773.4	726.8	680.8	632.0	578.6	569.9	527.6
7.5°	993.3	991.9	982.3	957.2	930.9	873.6	807.9	733.1	646.5	633.6	563.6
10°	1118.7	1118.1	1114.9	1096.4	1074.1	1019.2	946.6	844.5	725.4	707.9	608.5
12.5°	1215.4	1216.5	1218.7	1212.2	1201.5	1154.8	1080.4	962.6	809.5	792.2	658.6
15°	1281.0	1284.2	1295.4	1304.6	1310.2	1281.5	1209.5	1083.4	903.8	883.0	714.0
17.5°	1314.0	1317.7	1337.0	1364.8	1390.4	1387.5	1330.3	1198.7	994.2	974.2	773.6
20°	1342.6	1345.3	1366.9	1400.4	1445.7	1465.7	1433.6	1309.5	1093.4	1069.5	836.8
22.5°	1425.3	1428.7	1435.2	1454.2	1494.3	1531.1	1515.6	1414.4	1184.2	1162.0	896.7
25°	1584.9	1589.1	1575.0	1558.9	1566.5	1592.1	1595.0	1510.1	1276.3	1251.2	961.2
27.5°	1777.2	1783.2	1759.2	1717.8	1681.7	1671.8	1668.3	1588.5	1364.2	1335.2	1024.9
30°	1965.6	1975.8	1944.6	1891.0	1824.7	1778.1	1743.6	1665.3	1450.9	1423.1	1085.1
32.5°	2149.6	2145.4	2100.1	2047.7	1970.1	1911.7	1828.3	1747.6	1548.4	1516.5	1144.8
35°	2275.6	2277.0	2235.0	2172.8	2098.8	2054.0	1941.7	1836.4	1647.9	1618.5	1212.7
37.5°	2382.9	2376.2	2328.5	2270.5	2206.8	2187.7	2074.4	1934.3	1755.7	1723.6	1285.0
40°	2418.6	2410.8	2379.6	2337.9	2286.8	2285.2	2220.9	2045.2	1877.6	1845.8	1366.4
42.5°	2396.9	2387.0	2374.2	2362.8	2347.1	2354.3	2358.5	2175.2	2011.6	1976.0	1460.7
45°	2316.9	2302.0	2311.0	2335.7	2369.9	2410.7	2482.7	2319.1	2161.7	2131.9	1571.4
47.5°	2194.0	2180.4	2208.6	2261.5	2354.3	2457.6	2600.3	2478.0	2340.8	2311.2	1729.0
50°	2021.0	2025.0	2065.2	2161.5	2301.8	2479.3	2745.1	2688.4	2601.2	2573.5	1944.1
52.5°	1737.1	1737.8	1851.2	2009.2	2208.6	2468.1	2825.4	2957.3	2956.7	2923.3	2148.8
55°	1473.5	1489.6	1579.3	1789.3	2057.6	2423.3	2881.6	3088.0	3190.2	3151.0	2339.7
57.5°	1216.0	1225.4	1310.4	1521.3	1842.2	2303.9	2939.2	3244.9	3459.3	3434.5	2577.0
60°	923.1	937.5	1025.5	1220.3	1566.7	2092.1	2944.6	3408.7	3780.9	3755.9	2841.9
62.5°	599.1	624.1	706.4	889.0	1233.3	1787.5	2818.9	3515.8	4085.7	4076.8	3077.0
65°	344.4	363.1	420.4	561.2	850.9	1405.0	2520.1	3474.6	4273.3	4268.2	3164.9
66°	281.3	293.1	337.0	438.6	702.1	1233.9	2346.4	3387.8	4291.9	4292.1	3154.8
67.5°	225.0	230.2	249.9	314.0	518.1	978.0	2036.0	3196.2	4268.8	4275.1	3089.6
70°	186.2	188.9	195.0	210.5	282.8	589.8	1445.1	2698.3	4036.7	4041.6	2835.2
72.5°	167.0	168.7	171.0	173.2	199.5	329.5	882.6	2158.6	3539.3	3545.6	2447.5
75°	151.3	152.2	151.9	152.0	167.4	210.0	456.1	1611.6	2861.7	2849.1	1874.9
77.5°	132.9	133.8	132.0	132.4	148.1	161.4	227.0	1128.2	1931.2	1842.0	1056.4
80°	112.3	113.0	112.3	113.6	128.9	121.9	132.0	634.7	853.9	807.7	375.6
82.5°	84.9	87.9	90.1	95.2	106.2	86.7	88.3	247.2	260.0	247.6	115.2
85°	37.2	45.3	67.9	72.8	79.8	52.0	58.0	100.8	105.8	102.6	41.9
87.5°	9.8	10.7	33.6	42.3	44.2	23.5	30.2	45.9	48.4	45.9	13.9
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°	485.7	485.7	485.7	485.7	485.7	485.7	485.7	485.7	485.7	485.7	485.7
2.5°	491.2	482.3	466.4	452.3	441.7	434.5	427.2	423.6	421.5	419.3	419.7
5°	506.9	489.0	461.7	442.4	431.6	424.7	421.1	419.7	418.8	416.6	416.6
7.5°	530.5	505.2	467.7	447.8	439.3	434.1	431.9	431.2	430.1	427.6	428.0
10°	560.3	524.9	480.1	460.8	453.1	447.3	444.2	443.1	441.1	438.3	438.6
12.5°	595.4	549.3	496.6	476.4	467.0	459.2	454.1	451.1	447.6	443.9	444.0
15°	633.6	575.9	514.3	490.3	477.4	466.6	458.5	453.2	447.8	443.1	442.9
17.5°	672.5	601.5	527.8	497.8	480.5	466.2	455.2	447.1	440.4	434.6	434.1
20°	714.4	624.6	535.4	497.1	474.7	457.8	443.1	433.0	425.6	419.8	418.9
22.5°	757.0	646.3	536.7	489.7	461.9	441.1	425.8	414.6	407.0	401.1	398.9
25°	796.0	663.1	531.4	475.5	444.0	421.6	406.7	395.3	389.1	382.1	379.9
27.5°	831.5	674.8	521.0	457.2	424.0	402.0	387.9	378.1	371.4	366.0	364.2
30°	863.5	681.1	503.8	435.5	403.4	383.4	371.4	364.8	359.0	352.1	350.9
32.5°	893.8	681.1	481.8	411.9	383.0	366.9	359.9	355.7	349.2	342.5	340.7
35°	924.2	677.0	455.8	387.2	364.2	355.2	354.8	350.0	340.0	331.0	328.6
37.5°	956.1	668.5	426.5	364.0	348.9	350.0	353.0	342.2	328.1	315.3	311.9
40°	992.3	656.7	396.2	344.0	336.0	347.6	348.1	331.0	303.5	291.8	288.7
42.5°	1034.7	645.0	368.0	326.3	325.9	340.6	338.9	306.8	290.4	284.4	282.8
45°	1090.5	638.3	341.3	309.5	318.0	329.2	323.2	293.4	286.6	283.1	281.7
47.5°	1178.4	641.8	316.7	296.1	310.0	317.8	294.0	288.0	283.1	279.0	277.5
50°	1288.6	639.8	296.9	286.9	301.0	305.9	280.8	281.0	278.4	273.8	271.6
52.5°	1371.5	624.2	284.0	281.7	293.1	284.8	272.5	274.1	272.8	266.0	263.6
55°	1451.5	610.9	277.5	279.7	287.3	258.4	262.7	266.7	265.4	258.8	257.7
57.5°	1551.0	608.4	273.6	280.3	282.4	245.2	253.3	258.6	257.7	254.8	254.2
60°	1672.8	609.1	270.0	281.2	277.0	235.5	244.5	251.2	251.7	251.2	250.8
62.5°	1739.8	589.4	260.9	278.6	267.4	227.0	235.3	245.0	245.2	246.3	246.1
65°	1683.0	530.5	244.1	269.8	251.4	219.9	227.3	238.0	235.3	240.2	240.2
66°	1627.7	496.6	235.8	264.0	244.5	217.2	224.8	234.4	231.0	237.6	237.6
67.5°	1514.8	439.3	220.8	251.7	234.7	213.4	221.9	228.4	223.7	233.7	232.9
70°	1308.6	339.8	190.7	223.9	218.7	207.8	218.0	216.5	209.6	224.8	221.9
72.5°	1103.3	258.2	153.1	187.4	194.3	200.8	212.4	201.3	192.7	203.3	197.0
75°	856.1	194.1	121.0	145.7	164.1	189.8	205.7	183.8	171.4	170.3	166.9
77.5°	462.8	133.3	95.9	111.2	130.4	176.1	201.2	165.0	146.3	141.9	139.2
80°	183.3	86.7	69.7	84.3	91.2	156.2	190.3	143.2	120.6	116.3	112.1
82.5°	75.7	51.3	45.0	56.5	59.4	133.6	170.8	117.4	93.2	128.9	136.9
85°	32.5	28.2	26.7	29.3	33.6	93.7	136.0	89.6	100.6	89.7	71.3
87.5°	9.8	11.9	11.4	11.2	12.3	22.4	72.4	49.8	73.9	28.0	20.9
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)