

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: P1461737

Luminaire Tested: USSL-50-8540-U-T3RE-HSS

Issue Date: 06/10/2026

Test Information

Test Method: LM-79-2024
Report Number: P1461737
Test Lab: INNOVATION CENTER(G3)
Issue Date: 6/11/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: USSL-50-8540-U-T3RE-HSS
Description: USSL DISCRETE LED 1 SQUARE 50W 85CRI 4000k FIXTURE w/ TYPE III ROADWAY
ILLUMINANCE DISTRIBUTION OPTIC AND HOUSE SIDE SHIELD
Light Source: (40) 4000k CCT, 85 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5180.8 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 52
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.98
Total Harmonic Distortion (THDi): 3.35%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

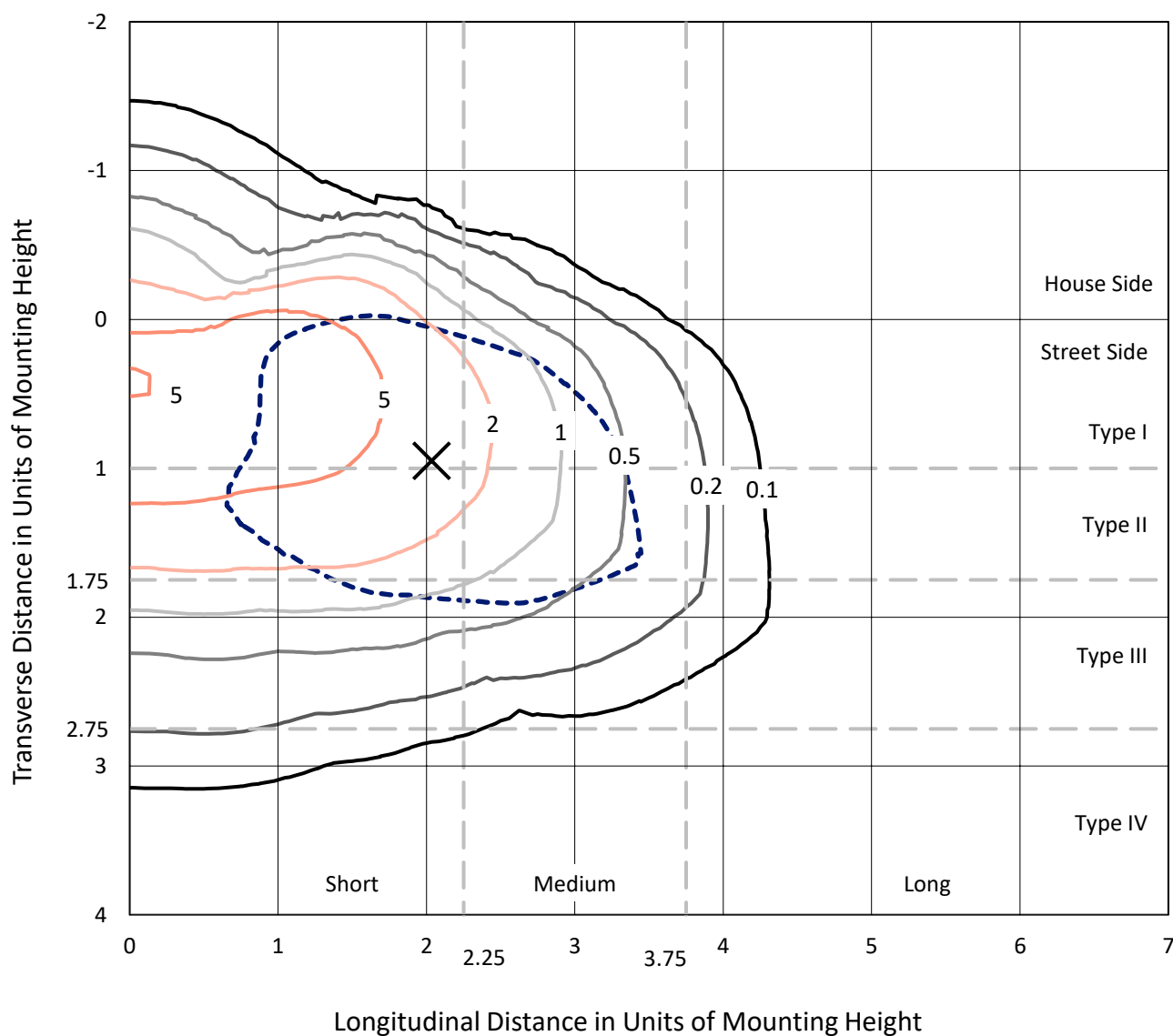
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

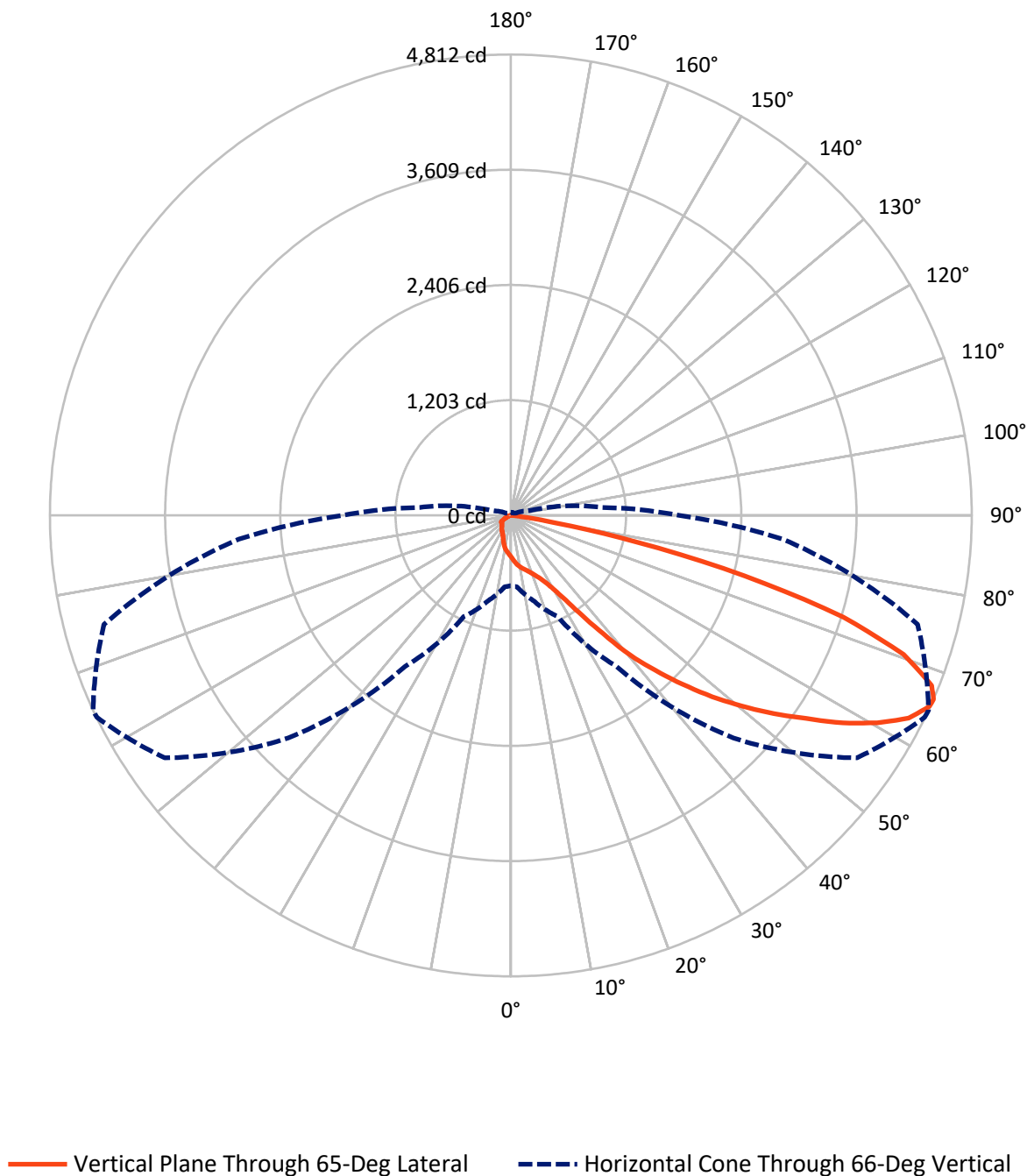


Based on 10 foot mounting height. Maximum calculated value = 9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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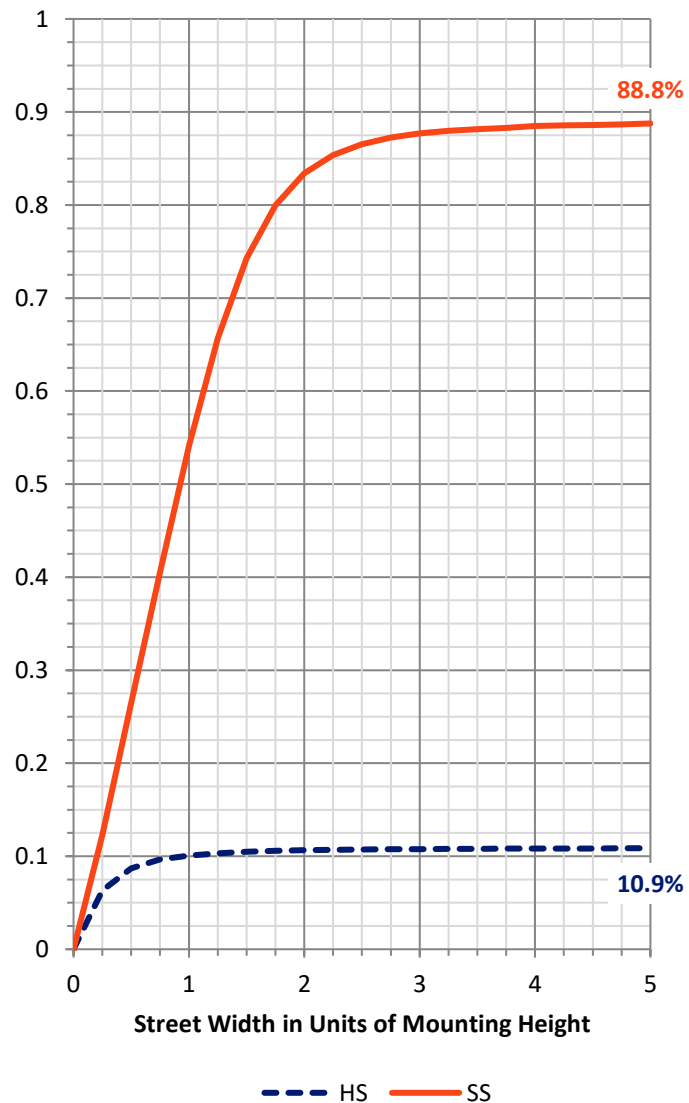
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	568.0	0.0	568.0
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	4612.8	0.0	4612.8
	% Fixture	89.0	0.0	89.0
Total	Lumens	5180.8	0.0	5180.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.0	0.8
10°-20°	121.0	2.3
20°-30°	220.5	4.3
30°-40°	437.6	8.4
40°-50°	908.0	17.5
50°-60°	1414.7	27.3
60°-70°	1440.7	27.8
70°-80°	559.5	10.8
80°-90°	38.0	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°	5180.8	100.0
0°-180°	5180.8	100.0

Coefficient of Utilization



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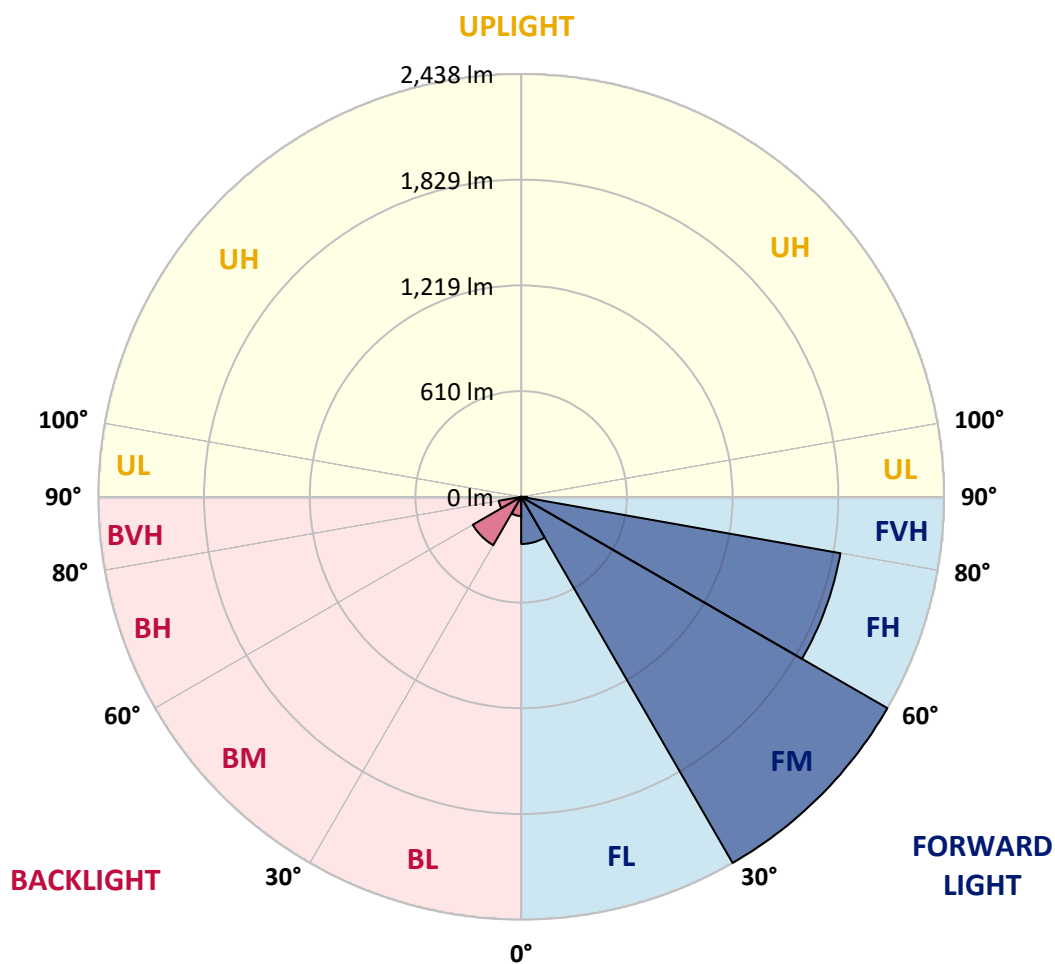
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	271.9	5.2			
FM	(30°-60°)	2438.0	47.1			
FH	(60°-80°)	1869.2	36.1			G2/5000
FVH	(80°-90°)	33.8	0.7			G1/100
BL	(0°-30°)	110.6	2.1	B1/500		
BM	(30°-60°)	322.1	6.2	B1/1000		
BH	(60°-80°)	131.0	2.5	B1/500		G1/500
BVH	(80°-90°)	4.2	0.1			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	431.3	431.3	431.3	431.3	431.3	431.3	431.3	431.3	431.3	431.3	431.3
2.5°	500.8	499.1	497.3	494.1	487.5	481.5	471.3	461.5	462.2	449.5	438.7
5°	534.2	532.4	532.1	531.0	528.2	521.5	510.3	495.5	494.5	472.0	447.8
7.5°	540.9	539.8	540.1	539.8	540.9	539.8	537.7	522.9	523.6	497.7	459.7
10°	548.2	545.8	547.9	549.6	551.4	553.1	552.1	547.2	548.2	522.6	475.5
12.5°	557.7	555.6	558.4	561.6	565.4	568.9	570.4	566.1	569.6	551.7	495.9
15°	567.2	565.4	569.6	575.3	582.6	588.3	590.4	589.0	591.1	581.6	518.7
17.5°	578.4	576.7	582.6	591.8	601.6	611.8	616.0	615.3	618.1	613.9	544.4
20°	592.8	591.1	599.5	612.5	627.9	640.6	649.0	646.6	649.4	649.0	577.7
22.5°	617.4	615.7	624.4	639.2	660.3	677.5	687.7	685.2	688.7	688.4	613.2
25°	656.0	654.6	665.5	680.3	699.2	723.8	737.5	734.0	737.2	736.8	660.6
27.5°	711.5	711.2	715.4	729.8	751.6	780.4	803.9	799.0	804.6	805.7	717.9
30°	793.0	786.7	782.1	790.6	813.7	856.2	890.6	898.4	905.0	910.7	811.3
32.5°	930.3	913.5	898.7	876.6	886.8	944.0	1010.8	1049.4	1052.6	1081.7	951.8
35°	1113.7	1096.1	1060.3	1020.9	1003.0	1057.5	1175.1	1269.2	1279.1	1341.2	1157.6
37.5°	1311.0	1301.9	1250.6	1202.2	1171.6	1214.5	1374.6	1569.5	1566.4	1646.8	1393.9
40°	1561.4	1555.8	1502.1	1422.4	1356.0	1397.1	1613.1	1874.7	1917.9	1952.7	1662.6
42.5°	1752.8	1736.3	1707.2	1675.9	1594.1	1597.3	1863.1	2183.1	2210.1	2262.8	1925.3
45°	1870.9	1863.1	1881.7	1901.1	1863.5	1833.6	2142.0	2493.5	2512.8	2584.5	2183.1
47.5°	1973.4	1972.7	1997.3	2074.2	2093.2	2112.5	2453.1	2796.3	2828.6	2906.5	2418.4
50°	2028.5	2034.5	2099.8	2209.1	2289.1	2394.1	2788.9	3112.0	3126.7	3196.3	2645.2
52.5°	1993.4	2003.3	2135.3	2307.7	2444.0	2662.5	3121.8	3420.4	3437.6	3482.9	2841.6
55°	1858.9	1864.9	2056.6	2333.0	2578.2	2965.5	3454.4	3722.0	3740.6	3754.3	3041.8
57.5°	1606.0	1624.0	1882.1	2235.0	2672.6	3227.5	3797.5	4065.2	4087.3	4026.2	3210.0
60°	1371.8	1388.7	1649.2	2008.9	2645.2	3453.0	4125.6	4390.7	4395.3	4267.4	3262.0
62.5°	1088.0	1111.6	1368.6	1700.2	2465.8	3565.0	4354.5	4651.7	4660.8	4421.6	3174.2
65°	800.7	826.4	1044.1	1314.9	2112.1	3448.4	4448.7	4802.0	4804.4	4434.6	2968.0
66°	733.3	748.8	923.0	1166.7	1924.9	3286.2	4412.5	4807.2	4812.2	4397.0	2850.4
67.5°	658.9	671.1	806.7	942.6	1593.0	2945.5	4203.2	4730.3	4738.8	4241.1	2666.3
70°	514.9	526.8	626.9	695.4	1093.6	2067.2	3588.9	4317.7	4351.4	3749.4	2265.6
72.5°	348.7	357.9	412.3	445.3	656.7	1150.9	2689.1	3580.1	3630.7	2901.6	1666.8
75°	211.1	215.3	226.2	249.0	328.4	552.4	1605.7	2483.3	2522.0	1842.1	987.9
77.5°	153.8	152.4	155.9	155.6	163.3	216.0	758.9	1343.7	1348.6	814.8	416.9
80°	121.2	114.8	116.6	116.6	109.2	99.7	237.4	411.6	455.9	236.7	123.3
82.5°	96.6	92.0	93.1	91.0	80.4	66.4	74.5	107.1	107.1	70.6	42.1
85°	69.2	64.6	67.1	67.8	51.3	48.5	42.8	48.1	48.5	37.9	32.3
87.5°	34.4	34.8	37.2	41.1	33.7	27.4	22.8	23.2	23.9	21.1	18.6
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°	431.3	431.3	431.3	431.3	431.3	431.3	431.3	431.3	431.3	431.3	431.3
2.5°	432.7	427.4	417.6	409.9	400.4	393.7	387.7	382.5	381.4	379.3	377.2
5°	436.2	426.0	407.4	390.2	373.0	358.6	345.9	335.0	329.4	322.4	321.7
7.5°	441.8	427.1	399.0	372.3	343.8	318.2	295.4	282.4	272.9	269.4	268.0
10°	451.3	430.9	392.6	350.1	305.9	272.9	255.0	243.4	239.2	238.5	238.5
12.5°	464.6	438.3	385.3	323.8	271.8	242.0	230.0	229.0	229.0	229.3	228.6
15°	480.4	448.1	374.0	295.0	243.0	224.4	221.6	220.9	220.6	220.9	221.3
17.5°	497.3	457.6	360.0	266.9	223.0	216.3	214.2	213.2	213.5	213.9	213.2
20°	519.1	469.9	341.0	240.2	213.9	209.0	206.5	205.8	205.8	206.2	206.2
22.5°	543.7	481.8	318.2	220.9	206.5	201.6	198.4	196.7	196.7	197.7	197.7
25°	574.6	495.5	294.0	206.5	198.1	193.2	188.2	185.8	186.5	187.2	186.5
27.5°	612.5	513.8	268.7	196.3	188.9	183.3	176.7	173.8	174.2	177.0	177.0
30°	676.8	540.9	245.8	186.5	178.4	171.0	163.7	161.2	162.3	166.1	167.5
32.5°	770.9	587.9	226.5	176.3	166.5	155.9	148.6	145.7	149.3	155.6	155.9
35°	930.0	675.7	214.9	165.1	152.4	140.8	131.3	128.2	133.1	138.4	139.4
37.5°	1116.8	799.7	218.8	154.9	139.4	126.4	116.2	112.7	114.5	119.8	119.8
40°	1326.5	946.8	246.5	145.4	127.5	113.4	103.3	99.7	100.4	101.8	103.3
42.5°	1519.6	1100.3	294.3	136.6	117.0	101.5	93.1	89.2	89.6	89.9	89.9
45°	1732.8	1258.4	351.6	129.9	107.1	92.0	83.6	81.8	81.8	82.2	82.5
47.5°	1919.0	1405.2	414.1	126.1	98.0	82.9	76.2	75.5	75.5	76.2	76.6
50°	2098.4	1545.3	477.6	123.6	89.2	75.2	69.9	69.2	69.9	70.9	71.3
52.5°	2255.8	1679.8	548.9	122.6	81.5	68.8	64.3	63.2	63.6	64.6	65.0
55°	2405.7	1812.9	631.1	122.2	73.4	62.5	58.3	56.9	57.2	57.9	57.6
57.5°	2522.0	1876.8	680.3	112.4	66.7	56.5	52.3	49.9	50.6	50.6	51.3
60°	2502.3	1802.0	624.8	91.7	59.7	49.9	46.0	43.5	44.6	44.6	45.3
62.5°	2269.1	1504.5	445.7	73.0	52.3	43.9	40.4	38.6	39.3	39.7	39.3
65°	1910.5	1103.8	237.4	59.0	44.6	37.9	35.5	33.7	34.4	34.1	34.1
66°	1755.3	953.2	180.2	55.1	41.4	36.2	33.7	32.3	32.3	32.0	31.6
67.5°	1522.1	762.8	114.5	49.2	37.2	34.1	31.3	29.5	29.1	28.8	28.8
70°	1131.6	506.4	63.6	38.6	31.6	29.5	27.4	25.3	24.6	24.2	24.6
72.5°	813.4	332.2	42.8	29.9	27.0	26.0	23.5	21.1	20.7	21.1	21.1
75°	478.3	179.8	31.6	22.1	22.1	22.1	20.0	17.6	17.6	19.3	19.3
77.5°	223.7	85.0	23.9	17.9	17.9	19.0	16.5	14.8	15.8	17.9	18.3
80°	85.0	38.6	16.5	14.0	14.0	15.8	13.0	13.0	13.7	14.4	13.3
82.5°	36.2	21.4	11.6	10.5	10.9	11.9	10.2	10.5	10.9	6.7	7.7
85°	28.4	12.6	6.3	6.0	6.3	7.0	5.6	6.3	5.3	1.8	3.5
87.5°	15.1	6.0	3.2	2.8	2.5	2.5	2.1	2.8	2.5	1.1	1.1
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)