

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: P1461844

Luminaire Tested: USSL-150-8540-U-T4RE-HSS

Issue Date: 06/10/2026

Test Information

Test Method: LM-79-2024
Report Number: P1461844
Test Lab: INNOVATION CENTER(G3)
Issue Date: 6/11/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: USSL-150-8540-U-T4RE-HSS
Description: USSL DISCRETE LED 1 SQUARE 150W 85CRI 4000k FIXTURE w/ TYPE IV 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: 12635 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

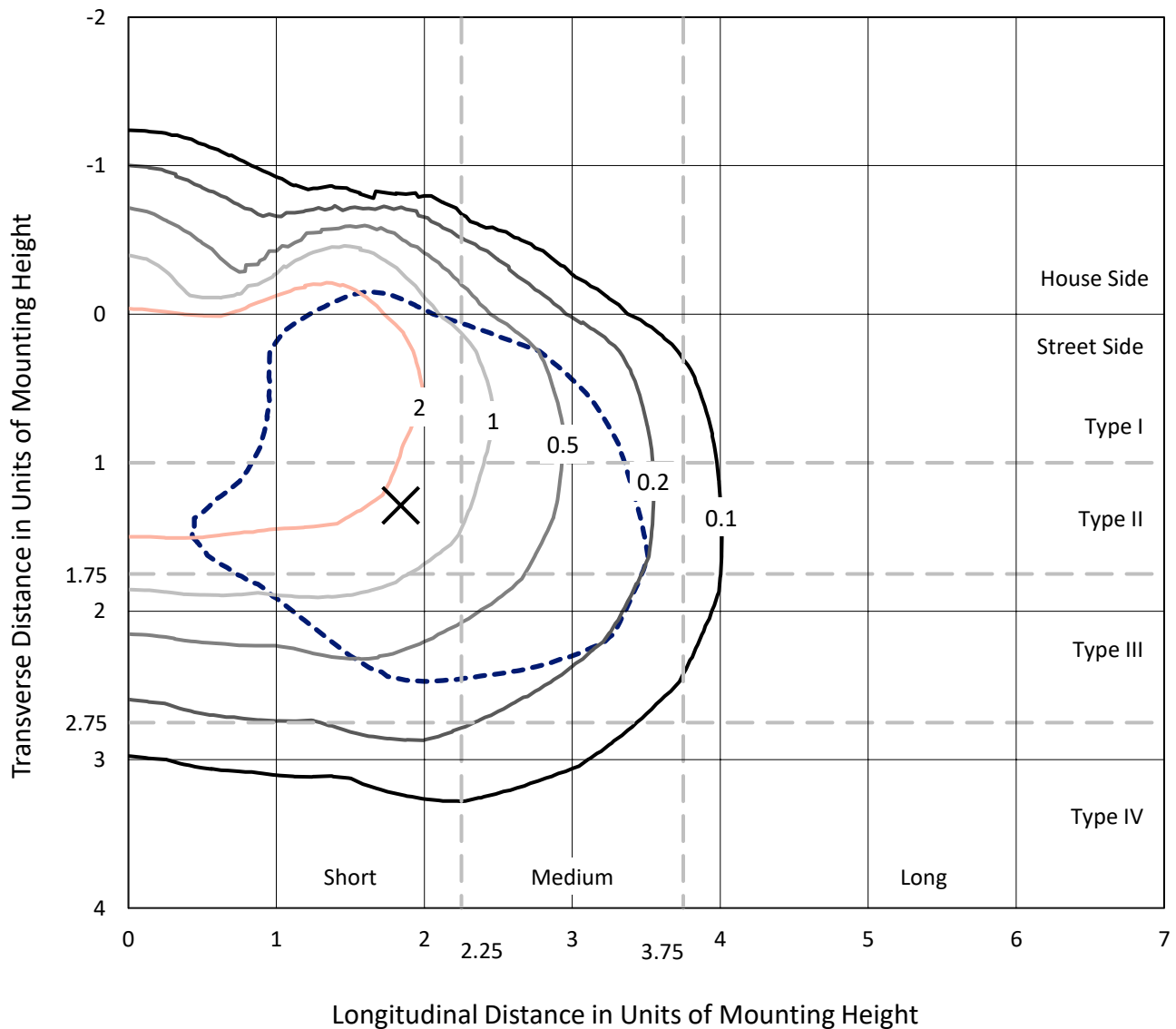
Input Watts (W): 152
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.98
Total Harmonic Distortion (THDi): 2.75%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

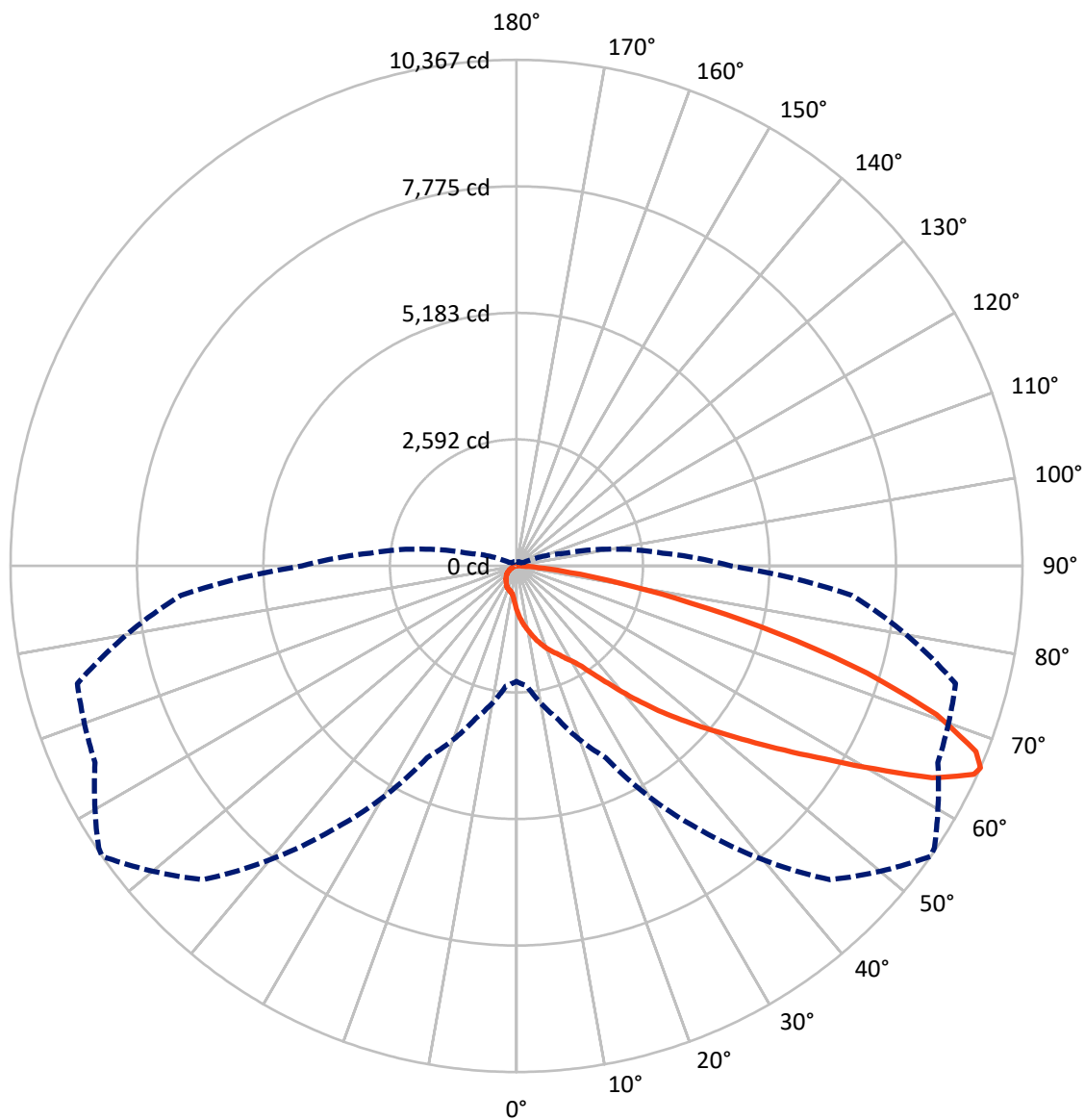


Based on 20 foot mounting height. Maximum calculated value = 4.6 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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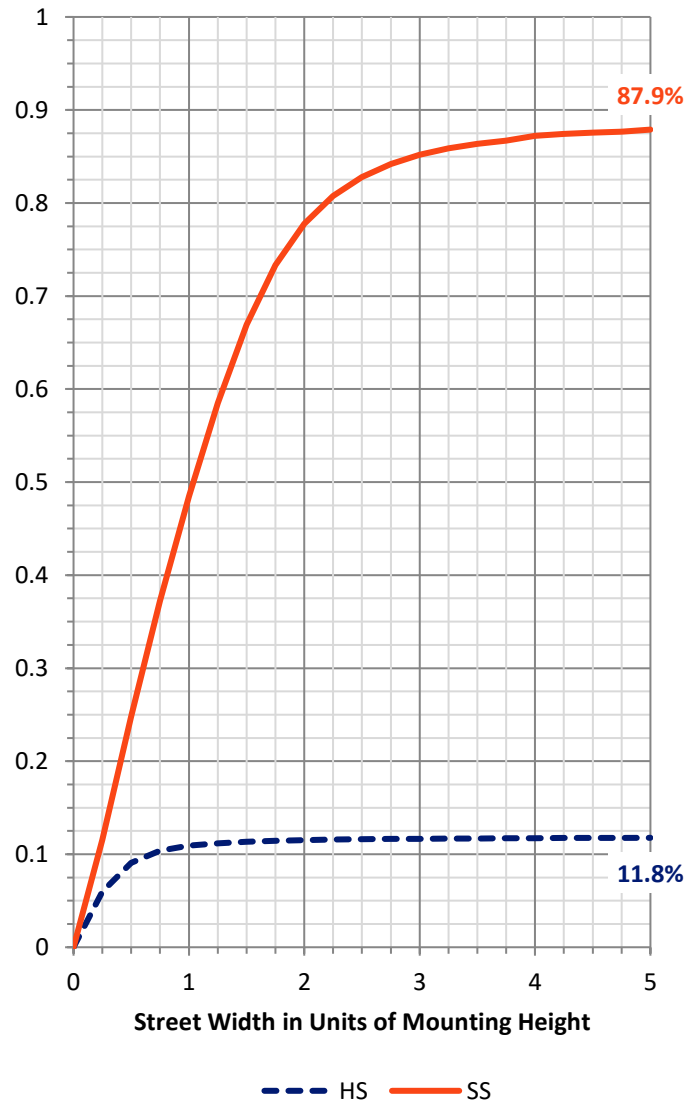
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1500.2	0.0	1500.2
	% Fixture	11.9	0.0	11.9
Street Side	Lumens	11134.7	0.0	11134.7
	% Fixture	88.1	0.0	88.1
Total	Lumens	12635.0	0.0	12635.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.0	0.7
10°-20°	303.0	2.4
20°-30°	561.5	4.4
30°-40°	976.4	7.7
40°-50°	1888.3	14.9
50°-60°	3231.0	25.6
60°-70°	3665.2	29.0
70°-80°	1750.0	13.9
80°-90°	169.7	1.3
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°	12635.0	100.0
0°-180°	12635.0	100.0

Coefficient of Utilization



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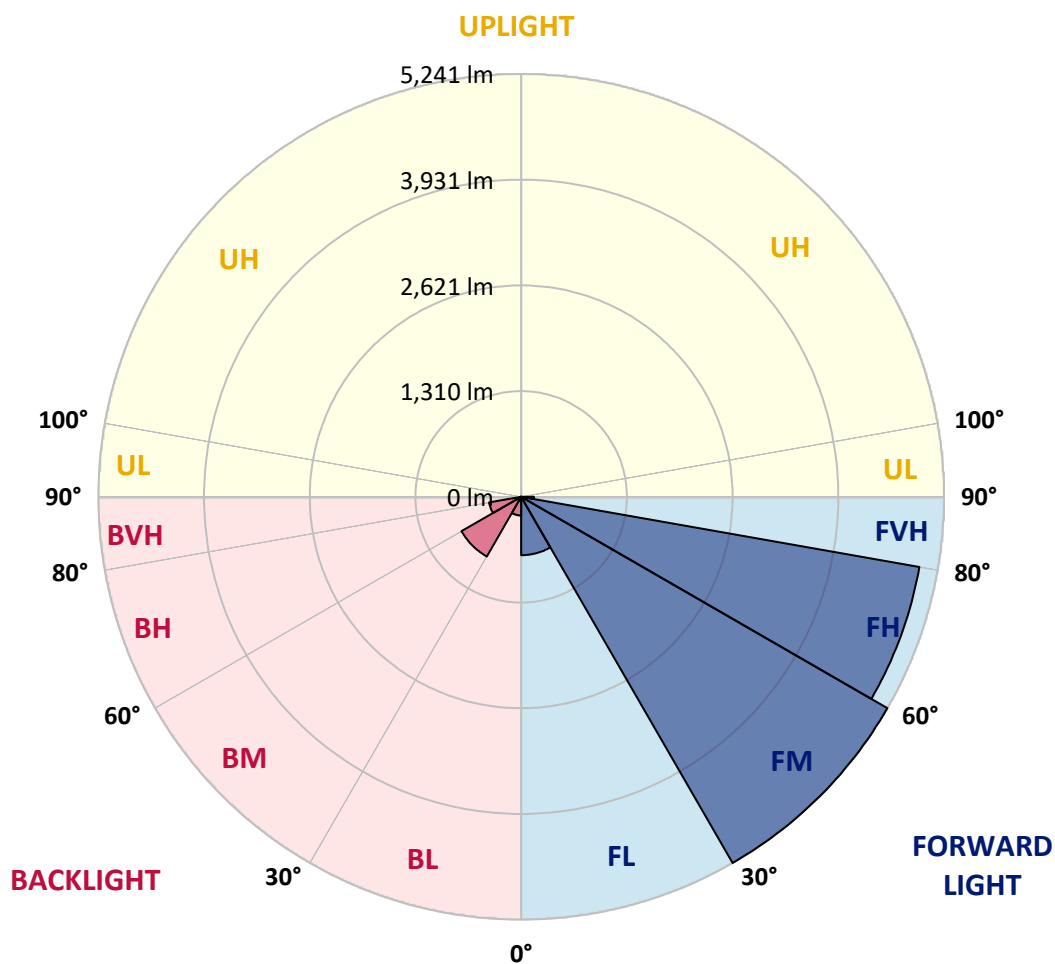
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	723.2	5.7			
FM	(30°-60°)	5241.0	41.5			
FH	(60°-80°)	5011.7	39.7			G3/7500
FVH	(80°-90°)	158.8	1.3			G2/225
BL	(0°-30°)	231.2	1.8	B1/500		
BM	(30°-60°)	854.6	6.8	B1/1000		
BH	(60°-80°)	403.5	3.2	B1/500		G1/500
BVH	(80°-90°)	10.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	903.4	903.4	903.4	903.4	903.4	903.4	903.4	903.4	903.4	903.4	903.4
2.5°	1093.2	1105.6	1095.9	1086.2	1073.9	1048.4	1027.3	1022.1	996.6	962.3	924.5
5°	1272.5	1275.2	1264.6	1240.9	1220.7	1175.9	1135.4	1131.9	1080.9	1015.0	944.7
7.5°	1429.8	1430.7	1413.1	1392.0	1353.4	1305.9	1245.3	1233.9	1161.8	1072.2	965.8
10°	1576.6	1574.8	1562.5	1537.9	1493.1	1426.3	1351.6	1343.7	1248.8	1131.9	993.9
12.5°	1683.8	1680.3	1675.9	1650.4	1614.4	1553.8	1466.7	1453.6	1346.3	1195.2	1022.1
15°	1757.6	1754.1	1753.2	1741.8	1715.5	1674.1	1586.3	1576.6	1451.8	1277.8	1057.2
17.5°	1806.0	1806.0	1807.7	1804.2	1791.9	1761.2	1697.9	1692.6	1569.6	1358.7	1100.3
20°	1860.5	1857.8	1864.0	1865.7	1858.7	1843.8	1810.4	1802.5	1688.2	1465.9	1149.5
22.5°	1931.6	1929.0	1931.6	1936.0	1936.0	1926.4	1908.8	1904.4	1826.2	1590.7	1211.9
25°	2018.6	2016.0	2018.6	2023.0	2023.9	2029.2	2010.7	2011.6	1957.1	1724.2	1288.3
27.5°	2127.6	2127.6	2125.0	2126.7	2135.5	2142.6	2139.0	2137.3	2087.2	1888.6	1377.1
30°	2255.0	2250.7	2255.0	2251.5	2257.7	2263.0	2263.8	2267.4	2240.1	2059.1	1502.8
32.5°	2386.0	2385.1	2404.4	2412.4	2415.0	2436.1	2449.3	2461.6	2451.9	2292.0	1681.2
35°	2559.1	2555.6	2574.9	2601.3	2625.0	2658.4	2728.7	2717.3	2772.7	2702.4	1977.3
37.5°	2774.4	2767.4	2792.9	2827.2	2868.5	2934.4	3046.9	3051.3	3196.3	3280.6	2517.8
40°	3081.1	3069.7	3074.1	3155.0	3203.3	3279.7	3443.2	3450.2	3720.0	3943.3	3165.5
42.5°	3385.2	3377.3	3397.5	3411.6	3466.9	3644.5	3872.1	3874.7	4278.1	4621.7	3901.1
45°	3727.9	3721.8	3720.0	3723.6	3737.6	3967.9	4334.3	4366.8	4825.6	5309.8	4667.4
47.5°	4098.8	4073.3	4083.9	4076.0	4083.9	4329.1	4809.8	4819.4	5404.7	5955.7	5404.7
50°	4427.5	4426.6	4443.3	4460.0	4486.4	4794.8	5340.6	5410.9	5924.1	6594.7	6122.7
52.5°	4687.6	4686.7	4790.4	4859.0	4932.8	5338.8	5947.8	5997.9	6520.8	7263.4	6864.4
55°	4765.8	4789.6	5050.6	5301.0	5481.2	6001.4	6657.0	6677.3	7141.3	8014.8	7568.4
57.5°	4605.0	4652.5	5101.5	5585.8	6105.1	6866.2	7453.3	7429.5	7843.5	8867.3	8104.5
60°	4179.7	4242.1	4890.6	5646.4	6616.6	7843.5	8436.7	8425.2	8706.5	9602.0	8242.4
62.5°	3497.7	3590.9	4366.0	5329.2	6904.0	8705.6	9555.4	9507.1	9399.8	9878.8	7913.8
65°	2690.1	2765.6	3583.8	4647.2	6767.8	9138.0	10296.2	10269.9	9611.6	9542.2	7240.6
66°	2365.8	2467.7	3236.7	4331.7	6620.1	9088.7	10366.5	10327.0	9528.1	9313.7	6900.5
67.5°	1963.3	2072.3	2783.2	3829.0	6302.0	8736.3	10151.2	10165.3	9265.4	8833.0	6275.6
70°	1521.2	1617.9	2239.2	3118.9	5635.9	7514.8	9128.3	9207.4	8499.9	7668.6	5243.9
72.5°	1009.8	1095.9	1503.7	2266.5	4692.9	5911.8	7511.3	7646.6	7462.9	6146.5	4049.6
75°	543.1	586.2	820.8	1334.9	3364.1	4395.0	5558.5	5697.4	5606.0	4173.5	2537.1
77.5°	344.5	333.1	372.6	602.9	1907.9	3155.8	3648.9	3770.1	3441.5	2135.5	1148.6
80°	248.7	227.6	233.8	310.2	797.1	2015.1	2141.7	2091.6	1668.0	750.5	352.4
82.5°	174.0	164.3	159.9	186.3	295.3	1038.8	1106.4	1040.5	587.1	235.5	115.1
85°	113.4	105.5	102.8	112.5	128.3	452.6	442.9	423.6	214.4	105.5	65.0
87.5°	58.9	58.9	58.9	65.0	65.9	155.6	133.6	129.2	71.2	42.2	30.8
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°	903.4	903.4	903.4	903.4	903.4	903.4	903.4	903.4	903.4	903.4	903.4
2.5°	906.1	886.7	853.3	814.7	780.4	756.7	732.1	714.5	705.7	702.2	701.3
5°	906.9	868.3	795.3	729.4	677.6	648.6	626.6	610.8	603.7	598.5	599.4
7.5°	909.6	851.6	743.5	660.9	606.4	581.8	571.2	568.6	569.5	570.4	568.6
10°	913.1	835.8	695.1	606.4	566.0	553.7	554.5	558.9	560.7	562.4	561.6
12.5°	921.9	819.9	653.8	566.8	544.0	542.2	544.0	548.4	551.0	552.8	553.7
15°	932.4	807.6	615.2	541.4	529.9	529.9	530.8	535.2	538.7	541.4	541.4
17.5°	946.5	794.5	580.0	522.9	517.6	515.9	515.9	520.3	522.9	526.4	525.5
20°	965.8	782.1	549.3	508.0	501.8	500.0	500.0	502.7	507.1	509.7	508.0
22.5°	993.9	774.2	523.8	493.9	486.0	482.5	481.6	484.2	487.7	492.1	493.0
25°	1030.0	769.0	501.8	475.4	466.7	463.1	461.4	463.1	467.5	472.8	472.8
27.5°	1077.4	773.4	481.6	457.0	444.7	438.5	436.8	439.4	446.4	453.5	453.5
30°	1145.1	791.8	464.9	435.9	419.2	409.5	405.1	408.7	419.2	430.6	432.4
32.5°	1244.4	830.5	455.2	419.2	397.2	380.5	369.1	374.4	387.6	403.4	405.1
35°	1442.1	916.6	449.1	404.3	374.4	352.4	337.5	335.7	354.2	372.6	378.8
37.5°	1839.4	1155.6	449.1	387.6	354.2	326.0	304.1	299.7	317.3	340.1	344.5
40°	2363.1	1538.8	522.0	372.6	334.8	300.6	272.4	266.3	277.7	302.3	307.6
42.5°	2955.5	2019.5	692.5	363.0	315.5	276.8	246.1	238.2	246.9	263.6	268.0
45°	3639.2	2574.9	985.2	371.7	297.0	252.2	221.5	211.8	218.8	225.9	227.6
47.5°	4296.5	3147.9	1386.8	406.9	279.5	229.4	198.6	192.5	193.3	194.2	193.3
50°	4942.5	3735.0	1880.7	484.2	259.3	208.3	181.0	172.2	171.4	168.7	167.9
52.5°	5588.4	4342.2	2400.1	568.6	239.0	188.9	165.2	155.6	151.2	148.5	150.3
55°	6192.2	4936.3	2886.0	598.5	217.1	171.4	150.3	138.9	133.6	130.1	130.9
57.5°	6484.8	5273.8	3095.2	541.4	193.3	155.6	136.2	123.9	118.6	116.0	116.0
60°	6367.9	5118.2	2777.9	387.6	171.4	138.9	122.2	110.7	106.3	103.7	103.7
62.5°	5721.1	4389.7	2046.8	257.5	147.6	122.2	109.0	100.2	95.8	94.0	94.0
65°	4802.7	3425.6	1228.6	186.3	125.7	109.0	100.2	91.4	87.0	83.5	83.5
66°	4387.9	3006.4	973.7	169.6	117.8	103.7	96.7	88.8	82.6	79.1	79.1
67.5°	3733.2	2432.6	629.2	148.5	106.3	97.5	91.4	83.5	77.3	72.1	72.1
70°	2835.1	1652.2	283.9	117.8	91.4	88.8	81.7	72.1	67.7	63.3	62.4
72.5°	2043.3	1060.7	143.2	92.3	77.3	78.2	67.7	62.4	56.2	51.9	51.9
75°	1298.9	573.9	90.5	71.2	65.9	66.8	56.2	51.0	46.6	43.1	43.9
77.5°	555.4	223.2	65.9	55.4	55.4	56.2	47.5	42.2	39.5	36.0	36.0
80°	174.9	95.8	47.5	42.2	44.8	46.6	39.5	36.9	32.5	25.5	26.4
82.5°	82.6	55.4	32.5	31.6	32.5	36.9	30.8	27.2	23.7	10.5	7.9
85°	53.6	28.1	17.6	16.7	18.5	22.0	21.1	14.9	10.5	3.5	3.5
87.5°	23.7	11.4	7.0	7.0	7.0	7.9	7.0	5.3	4.4	1.8	1.8
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)