

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: P1503173

Luminaire Tested: PRV-P-50-8540-U-T4RE-HSS

Issue Date: 07/22/2026

Test Information

Test Method: LM-79-2024
Report Number: P1503173
Test Lab: INNOVATION CENTER(G3)
Issue Date: 7/22/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: PRV-P-50-8540-U-T4RE-HSS
Description: PREVAIL PETITE DISCRETE LED 1 SQUARE 50W 85CRI 4000k FIXTURE w/ TYPE IV
ROADWAY ILLUMINANCE DISTRIBUTION OPTIC AND HOUSE SIDE SHIELD
Light Source: (10) 4000k CCT, 85 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4021.2 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

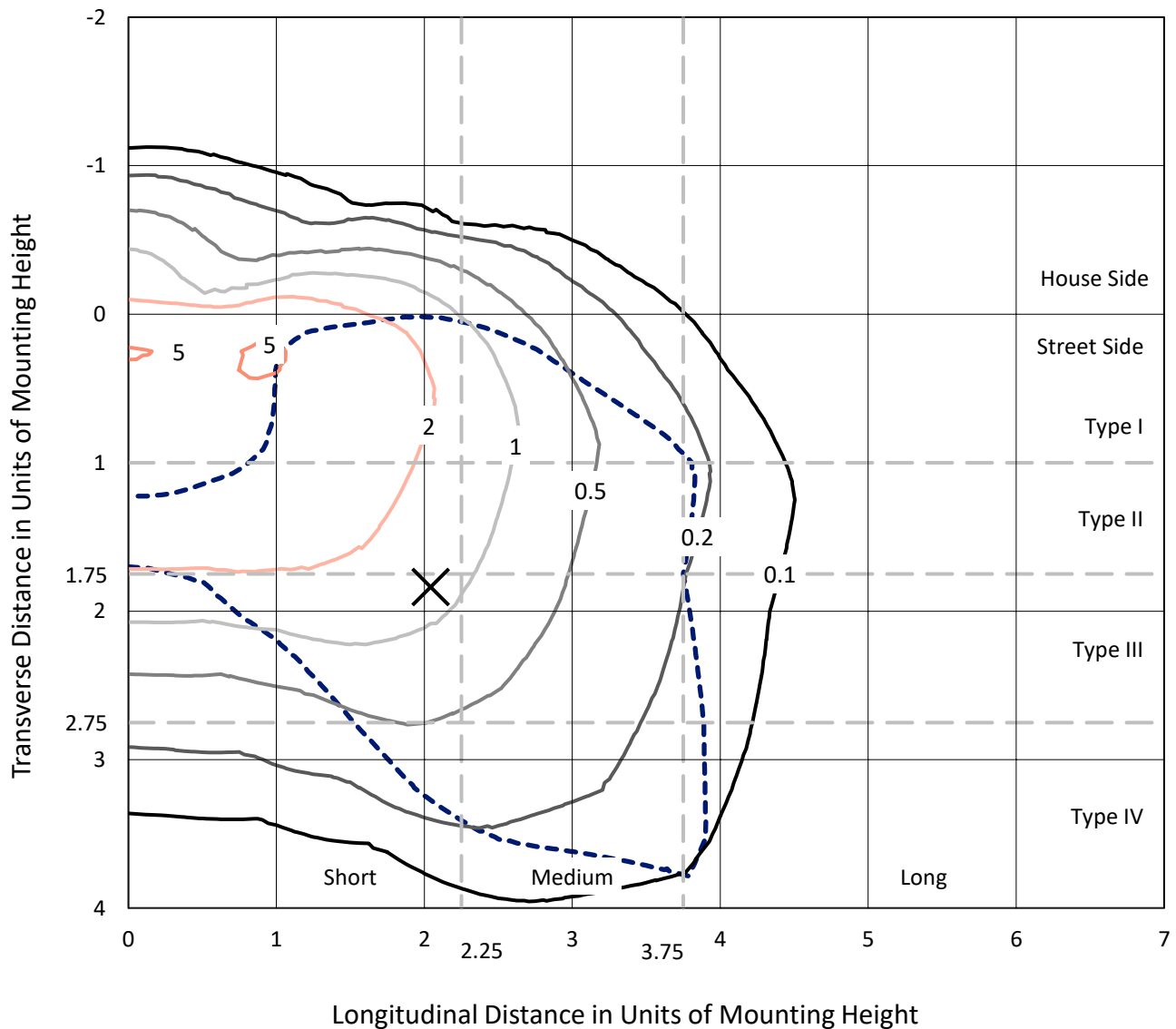
Input Watts (W): 52.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): 6.0%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

REPORT NUMBER: P1503173

CATALOG NUMBER: PRV-P-50-8540-U-T4RE-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

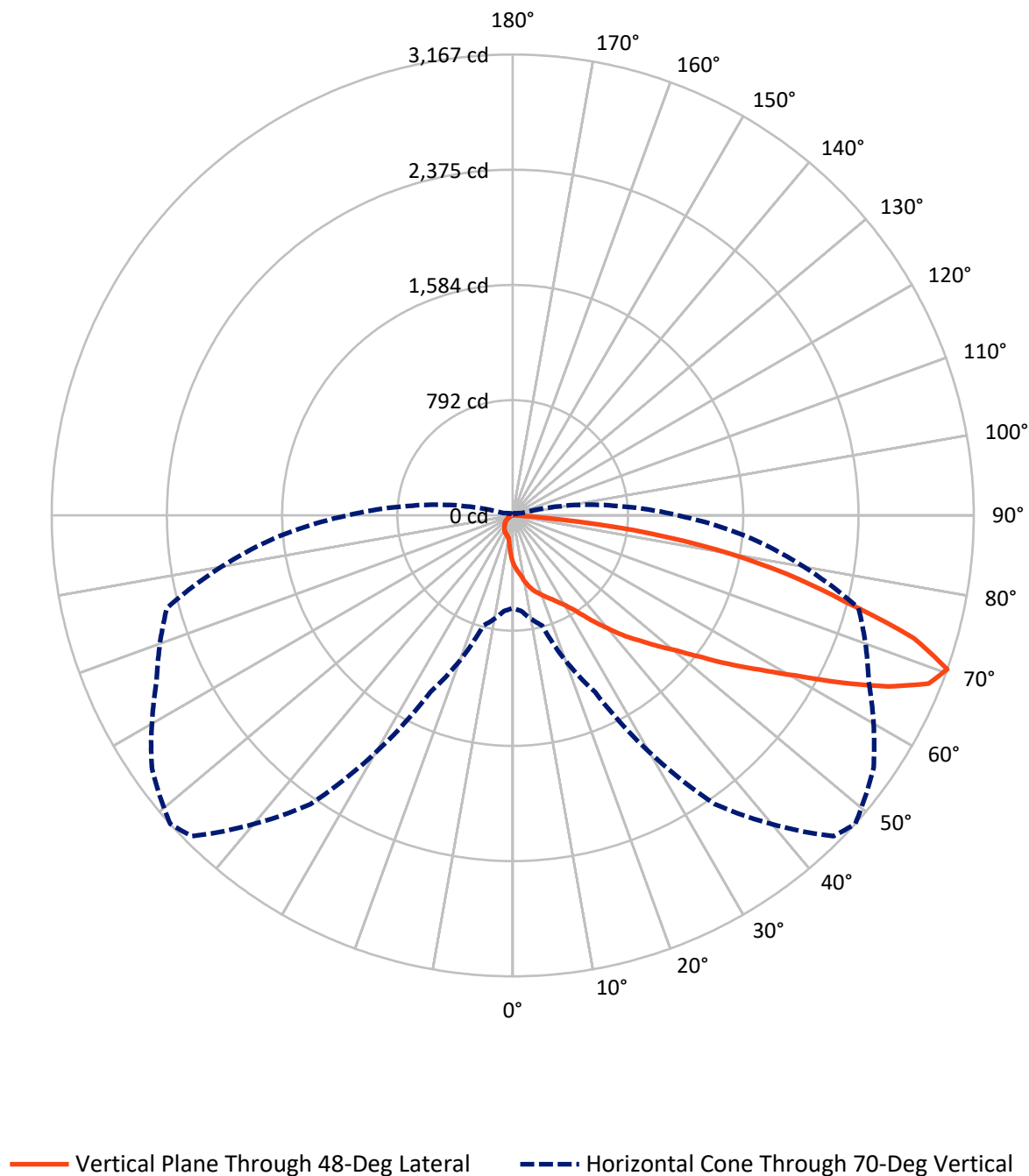


Based on 10 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P1503173

CATALOG NUMBER: PRV-P-50-8540-U-T4RE-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P1503173

CATALOG NUMBER: PRV-P-50-8540-U-T4RE-HSS

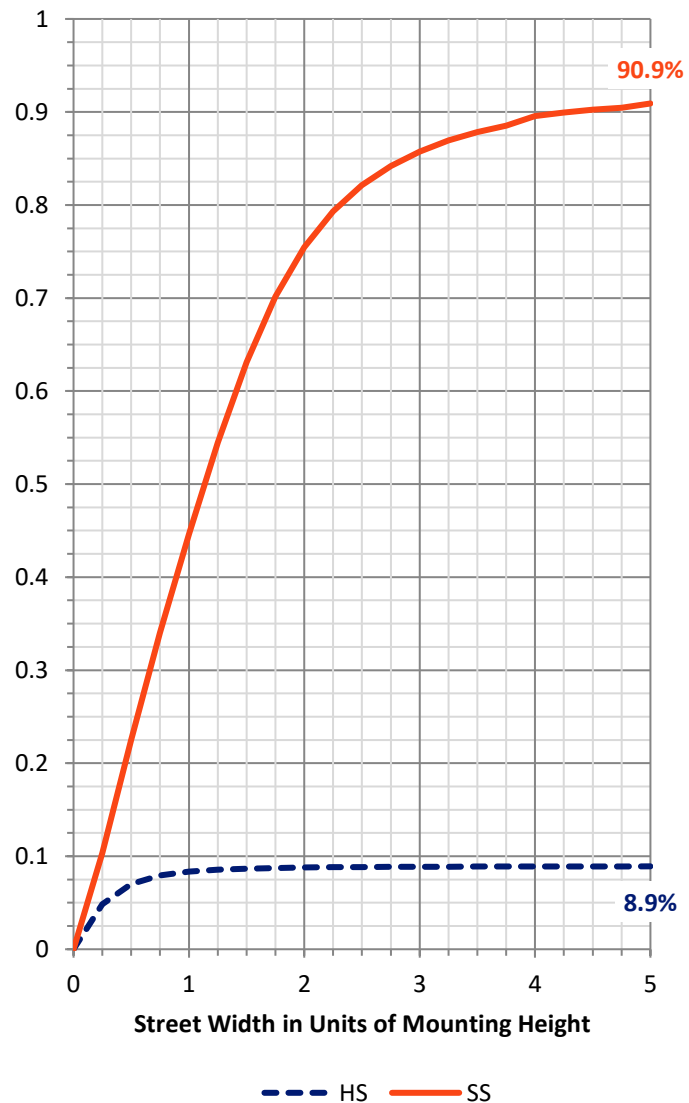
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	361.0	0.0	361.0
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	3660.2	0.0	3660.2
	% Fixture	91.0	0.0	91.0
Total	Lumens	4021.2	0.0	4021.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.2	0.8
10°-20°	96.5	2.4
20°-30°	175.4	4.4
30°-40°	299.3	7.4
40°-50°	551.1	13.7
50°-60°	897.3	22.3
60°-70°	1139.6	28.3
70°-80°	745.8	18.5
80°-90°	86.0	2.1
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°	4021.2	100.0
0°-180°	4021.2	100.0

Coefficient of Utilization



REPORT NUMBER: P1503173

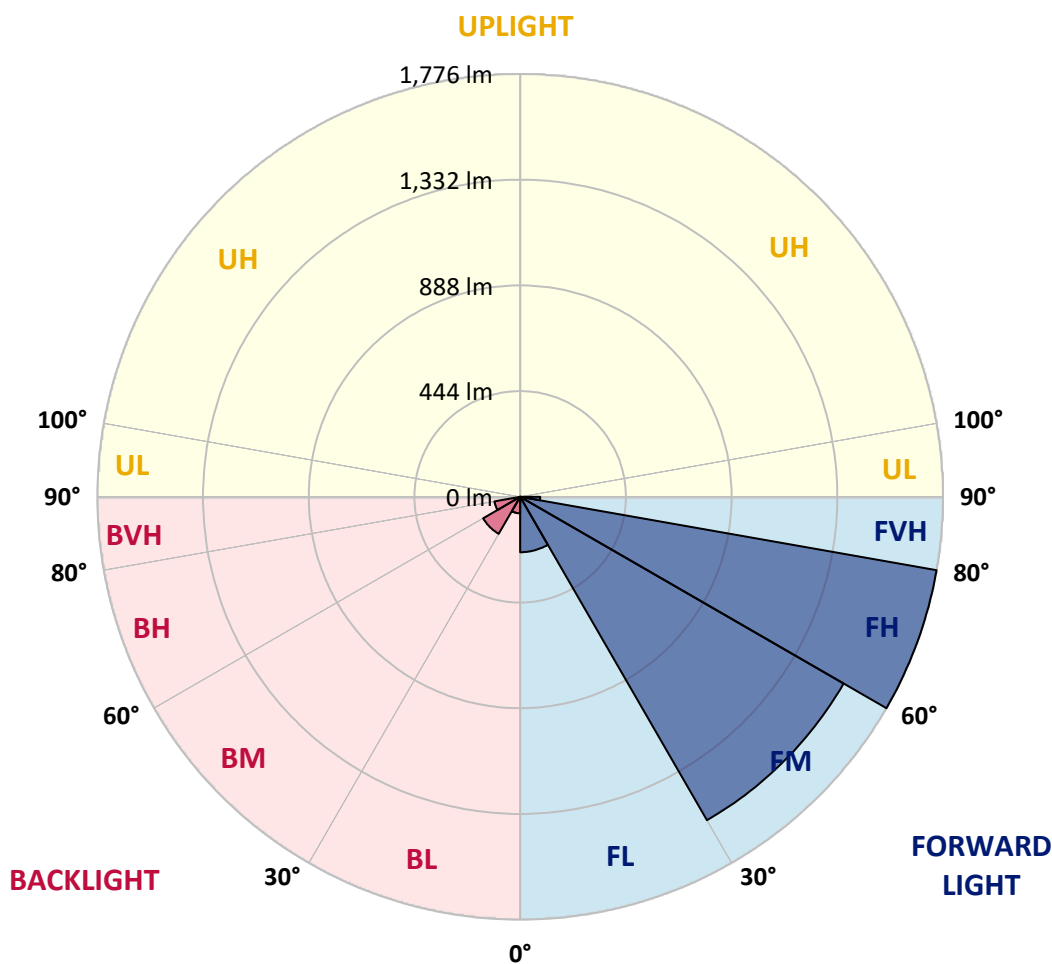
CATALOG NUMBER: PRV-P-50-8540-U-T4RE-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	232.7	5.8			
FM	(30°-60°)	1568.1	39.0			
FH	(60°-80°)	1775.6	44.2			G1/1800
FVH	(80°-90°)	83.9	2.1			G1/100
BL	(0°-30°)	69.4	1.7	B0/110		
BM	(30°-60°)	179.6	4.5	B0/220		
BH	(60°-80°)	109.8	2.7	B0/110		G0/110
BVH	(80°-90°)	2.1	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short



REPORT NUMBER: P1503173

CATALOG NUMBER: PRV-P-50-8540-U-T4RE-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	325.3	325.3	325.3	325.3	325.3	325.3	325.3	325.3	325.3	325.3	325.3
2.5°	371.4	371.4	370.2	368.9	366.4	361.4	359.0	354.0	347.7	340.3	331.5
5°	420.0	413.8	416.3	411.3	401.3	390.1	387.6	378.9	366.4	352.7	336.5
7.5°	476.1	476.1	469.9	462.4	449.9	426.3	420.0	403.8	383.9	363.9	339.0
10°	521.0	518.5	514.7	508.5	497.3	471.1	463.6	442.5	405.1	375.2	344.0
12.5°	548.4	545.9	543.4	538.4	527.2	511.0	502.3	482.3	436.2	390.1	352.7
15°	567.1	565.9	563.4	560.9	552.1	542.2	533.4	518.5	474.9	415.0	365.2
17.5°	577.1	577.1	577.1	577.1	574.6	564.6	559.6	549.6	514.7	442.5	377.6
20°	589.5	590.8	590.8	593.3	593.3	590.8	585.8	579.6	553.4	478.6	392.6
22.5°	603.2	605.7	608.2	613.2	614.5	614.5	613.2	609.5	590.8	519.7	410.1
25°	624.4	624.4	626.9	634.4	640.6	645.6	641.9	643.1	626.9	565.9	431.2
27.5°	660.6	655.6	656.8	660.6	670.5	678.0	678.0	678.0	666.8	614.5	457.4
30°	696.7	696.7	699.2	699.2	707.9	719.2	717.9	721.6	710.4	669.3	491.1
32.5°	742.8	742.8	744.1	750.3	760.3	772.7	772.7	786.5	771.5	731.6	539.7
35°	795.2	796.4	806.4	818.9	828.8	845.0	850.0	868.7	861.2	821.4	608.2
37.5°	853.8	857.5	872.5	892.4	898.6	929.8	938.5	956.0	977.2	970.9	730.4
40°	919.8	921.1	941.0	968.4	982.1	1017.0	1029.5	1068.1	1121.7	1147.9	911.1
42.5°	1029.5	1024.5	1030.7	1063.2	1066.9	1111.8	1134.2	1184.0	1270.0	1341.1	1099.3
45°	1204.0	1194.0	1169.1	1154.1	1135.4	1204.0	1228.9	1295.0	1437.1	1514.3	1271.3
47.5°	1387.2	1374.7	1341.1	1311.2	1250.1	1309.9	1339.8	1424.6	1577.9	1668.9	1409.6
50°	1544.2	1539.3	1514.3	1483.2	1413.4	1433.3	1460.7	1575.4	1715.0	1832.2	1536.8
52.5°	1658.9	1655.2	1651.4	1656.4	1596.6	1596.6	1614.0	1728.7	1849.6	1963.0	1647.7
55°	1743.7	1747.4	1751.1	1794.8	1779.8	1769.8	1803.5	1889.5	1990.4	2093.9	1743.7
57.5°	1730.0	1742.4	1840.9	1926.9	1949.3	1985.5	1997.9	2064.0	2138.8	2231.0	1838.4
60°	1538.0	1556.7	1712.5	2055.3	2148.7	2217.3	2233.5	2260.9	2293.3	2395.5	1979.2
62.5°	1336.1	1351.1	1488.2	2034.1	2364.4	2518.9	2526.4	2528.9	2499.0	2598.7	2096.4
65°	1160.4	1175.3	1286.2	1848.4	2550.1	2835.5	2834.2	2779.4	2713.3	2702.1	2056.5
67.5°	904.9	928.5	1061.9	1585.4	2575.0	3087.2	3082.3	2985.0	2834.2	2643.5	1872.0
70°	638.1	658.1	784.0	1338.6	2421.7	3117.2	3167.0	3026.2	2698.4	2459.1	1602.8
72.5°	507.3	527.2	613.2	1076.9	2288.3	2852.9	2881.6	2710.8	2366.8	2128.8	1228.9
75°	301.6	326.5	420.0	770.3	2070.2	2410.5	2349.4	2282.1	1903.2	1768.6	898.6
77.5°	130.9	145.8	214.4	411.3	1438.3	2010.4	1920.7	1706.3	1318.7	1192.8	501.0
80°	62.3	66.1	79.8	165.8	685.5	1439.6	1417.1	1155.4	726.6	562.1	183.2
82.5°	32.4	33.7	47.4	68.6	221.9	760.3	840.1	656.8	292.9	162.0	34.9
85°	12.5	15.0	19.9	32.4	41.1	172.0	200.7	220.6	89.7	31.2	15.0
87.5°	1.2	2.5	3.7	5.0	6.2	7.5	7.5	8.7	7.5	3.7	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1503173

CATALOG NUMBER: PRV-P-50-8540-U-T4RE-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	325.3	325.3	325.3	325.3	325.3	325.3	325.3	325.3	325.3	325.3	325.3
2.5°	326.5	321.6	309.1	300.4	289.2	277.9	271.7	263.0	259.2	260.5	259.2
5°	325.3	315.3	290.4	264.2	245.5	225.6	215.6	203.2	199.4	195.7	199.4
7.5°	325.3	307.9	269.2	231.8	204.4	185.7	173.2	167.0	164.5	164.5	164.5
10°	325.3	300.4	249.3	203.2	173.2	158.3	155.8	157.0	158.3	159.5	159.5
12.5°	327.8	296.6	228.1	179.5	152.1	148.3	150.8	153.3	155.8	155.8	157.0
15°	332.8	294.1	211.9	158.3	144.6	144.6	145.8	148.3	150.8	152.1	152.1
17.5°	340.3	291.6	194.4	145.8	139.6	139.6	140.8	142.1	145.8	147.1	147.1
20°	347.7	289.2	179.5	138.3	135.9	135.9	135.9	137.1	139.6	140.8	140.8
22.5°	357.7	287.9	163.3	133.4	130.9	130.9	130.9	130.9	132.1	133.4	133.4
25°	367.7	286.7	148.3	128.4	127.1	125.9	124.6	124.6	124.6	125.9	125.9
27.5°	380.1	285.4	134.6	122.1	120.9	119.7	119.7	117.2	118.4	119.7	118.4
30°	397.6	285.4	124.6	115.9	113.4	113.4	112.2	109.7	110.9	110.9	110.9
32.5°	426.3	295.4	119.7	109.7	105.9	105.9	103.4	102.2	102.2	102.2	102.2
35°	469.9	319.1	120.9	107.2	101.0	97.2	94.7	93.5	92.2	91.0	91.0
37.5°	540.9	350.2	129.6	108.4	96.0	91.0	87.2	83.5	81.0	78.5	77.3
40°	670.5	427.5	142.1	113.4	92.2	83.5	78.5	72.3	67.3	64.8	62.3
42.5°	818.9	527.2	159.5	117.2	89.7	76.0	68.6	61.1	56.1	52.3	51.1
45°	946.0	624.4	200.7	118.4	84.8	69.8	59.8	51.1	47.4	43.6	42.4
47.5°	1042.0	698.0	243.0	115.9	81.0	63.6	51.1	43.6	39.9	36.1	34.9
50°	1131.7	756.5	274.2	109.7	77.3	57.3	43.6	37.4	33.7	31.2	29.9
52.5°	1201.5	801.4	295.4	102.2	72.3	51.1	38.6	32.4	28.7	27.4	27.4
55°	1267.6	846.3	310.3	97.2	66.1	43.6	33.7	29.9	26.2	24.9	24.9
57.5°	1328.6	897.4	334.0	92.2	56.1	38.6	29.9	27.4	24.9	22.4	21.2
60°	1439.6	1002.1	351.5	74.8	46.1	33.7	27.4	24.9	22.4	19.9	19.9
62.5°	1528.0	1063.2	300.4	48.6	38.6	29.9	26.2	22.4	19.9	17.4	17.4
65°	1490.7	1018.3	206.9	38.6	32.4	27.4	22.4	19.9	16.2	13.7	13.7
67.5°	1346.1	901.1	124.6	32.4	27.4	23.7	19.9	16.2	12.5	10.0	10.0
70°	1134.2	729.1	64.8	27.4	22.4	18.7	15.0	12.5	8.7	7.5	6.2
72.5°	877.4	491.1	32.4	23.7	19.9	16.2	12.5	10.0	6.2	5.0	3.7
75°	605.7	306.6	24.9	19.9	16.2	12.5	10.0	7.5	3.7	2.5	2.5
77.5°	319.1	150.8	19.9	17.4	13.7	11.2	7.5	5.0	2.5	1.2	1.2
80°	119.7	44.9	16.2	13.7	11.2	8.7	5.0	2.5	1.2	0.0	0.0
82.5°	22.4	13.7	10.0	10.0	7.5	5.0	2.5	1.2	0.0	0.0	0.0
85°	11.2	7.5	3.7	3.7	2.5	1.2	1.2	0.0	0.0	0.0	0.0
87.5°	2.5	2.5	1.2	1.2	1.2	1.2	1.2	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)