

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P507556

Luminaire Tested: **VERD-S-CA1-40-750-U-T4-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507556
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-40-750-U-T4-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 760mA LED AND TYPE IV OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5545 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

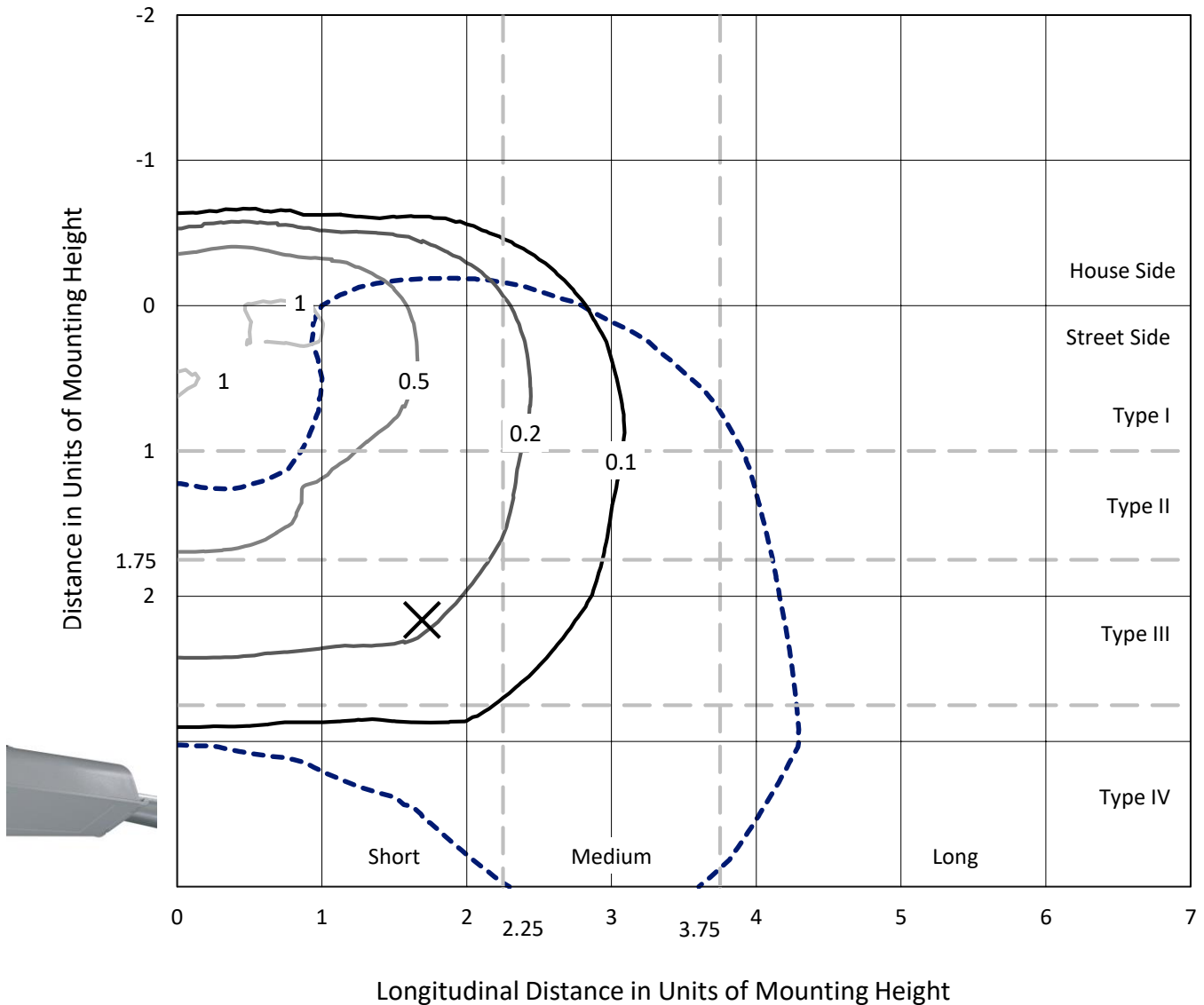
Input Watts (W): 43.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

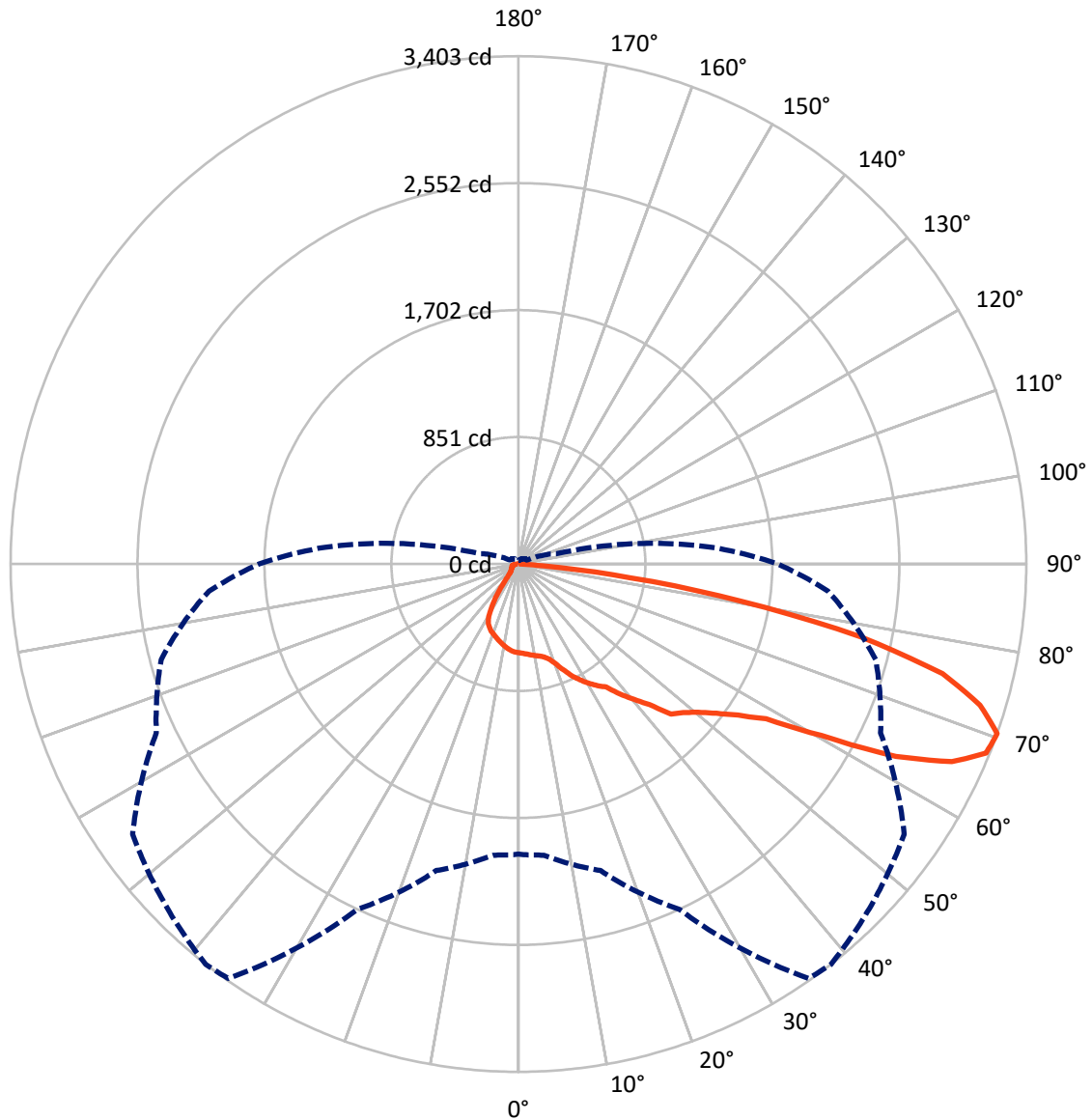
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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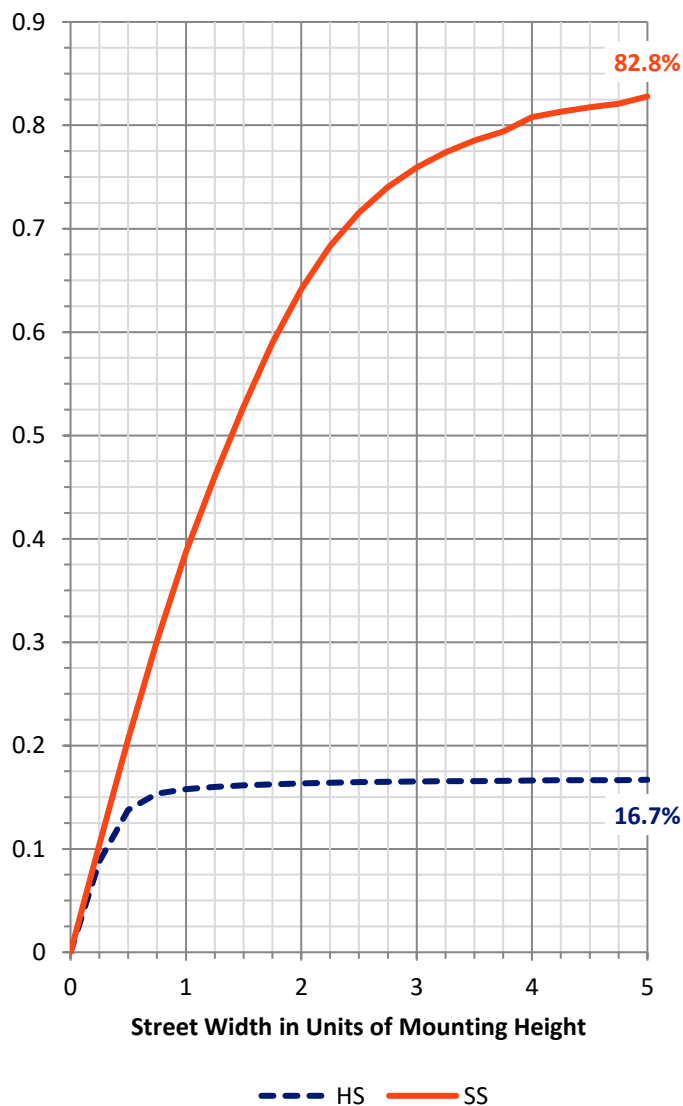
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	938.1	0.0	938.1
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	4606.9	0.0	4606.9
	% Fixture	83.1	0.0	83.1
Total	Lumens	5545.0	0.0	5545.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.8	1.0
10°-20°	172.2	3.1
20°-30°	317.0	5.7
30°-40°	496.3	9.0
40°-50°	754.0	13.6
50°-60°	1084.1	19.6
60°-70°	1456.4	26.3
70°-80°	1079.1	19.5
80°-90°	129.1	2.3
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°	5545.0	100.0
0°-180°	5545.0	100.0

Coefficient of Utilization



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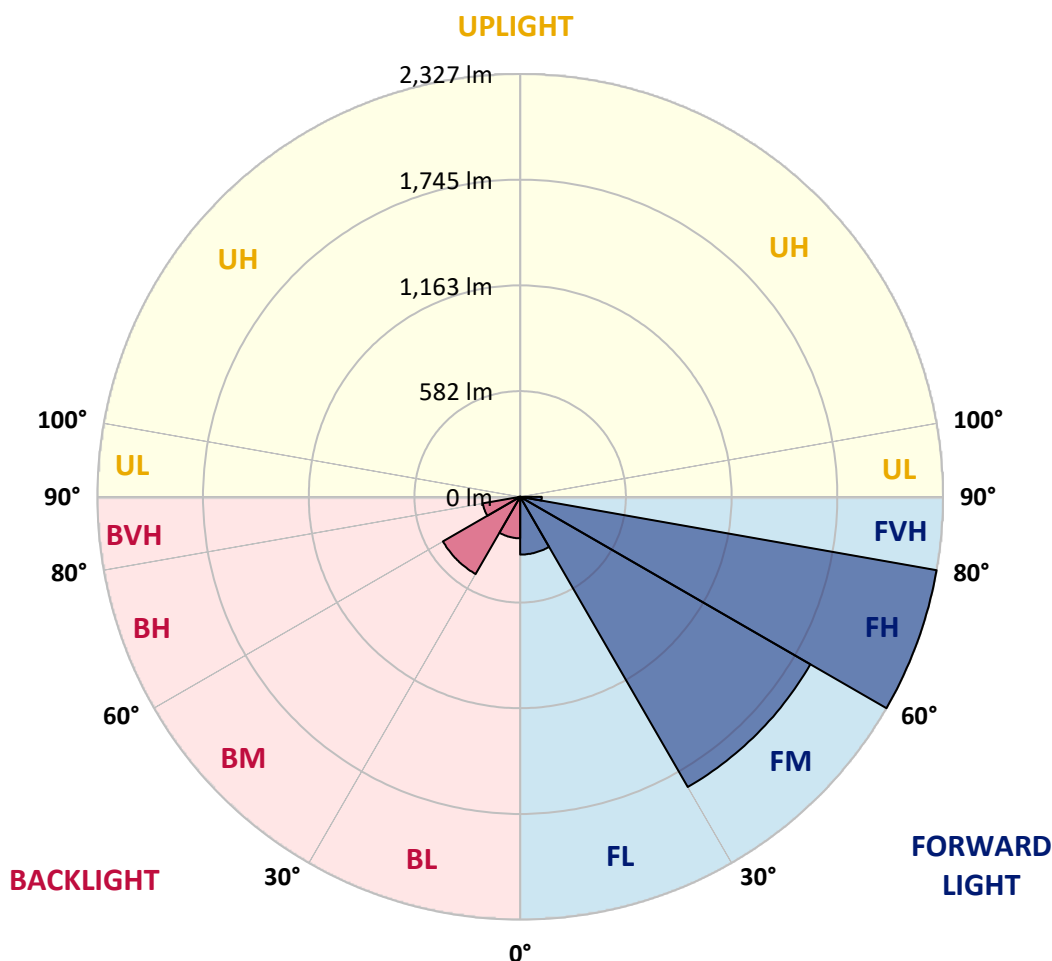
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	317.9	5.7			
FM (30°-60°)	1843.7	33.2			
FH (60°-80°)	2326.6	42.0			G2/5000
FVH (80°-90°)	118.7	2.1			G2/225
BL (0°-30°)	228.2	4.1	B1/500		
BM (30°-60°)	490.7	8.8	B1/1000		
BH (60°-80°)	208.9	3.8	B1/500		G1/500
BVH (80°-90°)	10.3	0.2			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	594.3	594.3	594.3	594.3	594.3	594.3	594.3	594.3	594.3	594.3	594.3
2.5°	603.1	603.1	603.1	601.4	601.4	599.6	599.6	597.8	597.8	596.1	594.3
5°	611.9	611.9	610.1	608.4	606.6	606.6	606.6	604.9	601.4	601.4	597.8
7.5°	615.4	615.4	615.4	615.4	615.4	615.4	615.4	613.6	611.9	610.1	606.6
10°	617.1	617.1	618.9	618.9	622.4	624.1	624.1	625.9	624.1	620.6	617.1
12.5°	622.4	624.1	624.1	625.9	631.2	632.9	634.7	639.9	639.9	636.4	632.9
15°	632.9	632.9	634.7	638.2	645.2	646.9	652.2	657.5	661.0	657.5	653.9
17.5°	664.5	664.5	664.5	664.5	668.0	669.7	676.7	685.5	689.0	689.0	687.3
20°	727.6	727.6	724.1	717.1	713.6	713.6	711.8	715.3	722.3	727.6	729.3
22.5°	799.5	797.7	796.0	785.4	773.2	769.7	766.2	762.6	766.2	774.9	778.4
25°	855.6	857.3	855.6	841.5	831.0	829.3	824.0	825.8	825.8	827.5	832.8
27.5°	901.2	904.7	897.6	890.6	883.6	878.4	881.9	887.1	895.9	892.4	902.9
30°	952.0	950.2	943.2	934.5	929.2	927.5	925.7	945.0	969.5	980.0	992.3
32.5°	1043.2	1041.4	1027.4	983.6	971.3	971.3	974.8	999.3	1037.9	1071.2	1102.8
35°	1127.3	1127.3	1109.8	1080.0	1027.4	1011.6	1020.4	1050.2	1106.3	1172.9	1223.7
37.5°	1227.3	1229.0	1209.7	1164.1	1122.1	1106.3	1064.2	1106.3	1174.7	1302.6	1365.8
40°	1343.0	1339.5	1307.9	1258.8	1204.5	1192.2	1157.1	1165.9	1262.3	1455.2	1516.5
42.5°	1407.8	1404.3	1383.3	1344.7	1300.9	1286.9	1255.3	1246.5	1379.8	1623.5	1663.8
45°	1470.9	1474.5	1472.7	1453.4	1442.9	1434.1	1416.6	1418.4	1525.3	1790.0	1791.8
47.5°	1507.8	1514.8	1486.7	1485.0	1486.7	1486.7	1511.3	1560.4	1663.8	1932.0	1904.0
50°	1616.5	1609.5	1523.5	1527.1	1549.8	1560.4	1605.9	1677.8	1856.7	2054.8	2000.4
52.5°	1835.6	1786.5	1677.8	1625.2	1634.0	1660.3	1714.6	1818.1	2049.5	2175.7	2086.3
55°	2081.1	2060.0	1947.8	1812.8	1753.2	1786.5	1844.4	1953.1	2202.0	2279.2	2158.2
57.5°	2251.1	2259.9	2263.4	2154.7	1946.1	1956.6	1993.4	2088.1	2338.8	2384.4	2212.6
60°	2415.9	2428.2	2494.8	2479.0	2410.7	2333.5	2189.8	2221.3	2456.3	2459.8	2254.6
62.5°	2547.4	2554.4	2661.4	2710.5	2833.2	2838.5	2605.3	2405.4	2575.5	2514.1	2270.4
65°	2480.8	2500.1	2656.1	2805.1	3154.0	3192.6	3101.4	2640.3	2666.6	2538.7	2259.9
67.5°	2256.4	2287.9	2435.2	2777.1	3353.9	3380.2	3299.6	3066.4	2700.0	2529.9	2202.0
70°	1944.3	1958.3	2126.7	2552.7	3390.7	3403.0	3303.1	3155.8	2677.2	2479.0	2081.1
72.5°	1581.4	1597.2	1742.7	2195.0	3224.2	3234.7	3208.4	3085.7	2622.8	2384.4	1835.6
75°	1186.9	1211.5	1350.0	1714.6	2847.2	2936.6	2991.0	2938.4	2472.0	2070.5	1397.3
77.5°	783.7	785.4	925.7	1295.6	2256.4	2345.8	2354.6	2310.7	1755.0	1299.1	620.6
80°	336.6	368.2	541.7	869.6	1499.0	1514.8	1532.3	1416.6	899.4	401.5	68.4
82.5°	112.2	124.5	227.9	459.3	738.1	755.6	724.1	627.7	252.5	54.3	38.6
85°	47.3	52.6	70.1	126.2	178.8	163.0	152.5	124.5	35.1	31.6	24.5
87.5°	1.8	1.8	1.8	1.8	3.5	1.8	3.5	3.5	5.3	5.3	7.0
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°	594.3	594.3	594.3	594.3	594.3	594.3	594.3	594.3	594.3	594.3	594.3
2.5°	594.3	594.3	594.3	592.6	592.6	590.8	590.8	589.1	589.1	589.1	589.1
5°	597.8	597.8	594.3	592.6	589.1	585.6	582.1	578.6	575.1	575.1	575.1
7.5°	604.9	603.1	597.8	590.8	583.8	575.1	569.8	562.8	559.3	555.8	557.5
10°	615.4	611.9	604.9	594.3	580.3	566.3	554.0	543.5	538.2	533.0	531.2
12.5°	629.4	625.9	615.4	599.6	578.6	557.5	538.2	522.5	511.9	506.7	504.9
15°	650.4	645.2	631.2	608.4	578.6	547.0	520.7	497.9	480.4	469.9	469.9
17.5°	683.8	678.5	659.2	627.7	585.6	541.7	501.4	462.8	440.1	427.8	426.0
20°	727.6	720.6	697.8	652.2	597.8	540.0	480.4	431.3	392.7	371.7	369.9
22.5°	778.4	773.2	738.1	678.5	610.1	536.5	464.6	399.7	345.4	306.8	298.0
25°	838.0	829.3	776.7	699.5	613.6	527.7	441.8	366.4	291.0	243.7	234.9
27.5°	908.2	888.9	811.7	715.3	611.9	510.2	415.5	319.1	220.9	185.8	180.6
30°	983.6	950.2	846.8	725.8	601.4	482.1	369.9	238.4	159.5	138.5	133.2
32.5°	1069.5	1016.9	878.4	727.6	578.6	443.6	292.8	163.0	114.0	101.7	99.9
35°	1172.9	1101.0	911.7	720.6	545.3	380.4	203.4	110.5	84.2	80.6	80.6
37.5°	1307.9	1208.0	948.5	699.5	494.4	294.5	135.0	75.4	73.6	75.4	75.4
40°	1449.9	1330.7	994.1	668.0	429.5	212.1	85.9	70.1	70.1	71.9	71.9
42.5°	1584.9	1448.2	1051.9	625.9	355.9	136.8	70.1	66.6	64.9	66.6	68.4
45°	1698.9	1558.6	1108.0	580.3	271.7	87.7	68.4	63.1	59.6	61.4	61.4
47.5°	1800.6	1642.8	1139.6	526.0	191.1	68.4	68.4	57.9	54.3	54.3	56.1
50°	1886.5	1709.4	1157.1	462.8	121.0	66.6	61.4	54.3	50.8	50.8	49.1
52.5°	1958.3	1758.5	1155.4	392.7	78.9	64.9	57.9	50.8	45.6	47.3	47.3
55°	2012.7	1797.0	1129.1	301.6	66.6	61.4	56.1	47.3	43.8	47.3	47.3
57.5°	2054.8	1814.6	1080.0	210.4	64.9	56.1	52.6	43.8	40.3	42.1	42.1
60°	2075.8	1805.8	1002.8	131.5	63.1	54.3	49.1	40.3	36.8	35.1	36.8
62.5°	2068.8	1774.3	892.4	87.7	59.6	50.8	45.6	38.6	33.3	29.8	29.8
65°	2026.7	1704.1	760.9	73.6	57.9	50.8	43.8	36.8	29.8	28.1	28.1
67.5°	1932.0	1558.6	564.5	68.4	57.9	49.1	42.1	35.1	29.8	26.3	26.3
70°	1737.4	1297.4	271.7	63.1	57.9	50.8	42.1	33.3	28.1	24.5	24.5
72.5°	1406.1	916.9	70.1	54.3	56.1	50.8	43.8	33.3	26.3	22.8	22.8
75°	916.9	440.1	59.6	43.8	50.8	47.3	42.1	33.3	26.3	21.0	21.0
77.5°	298.0	61.4	54.3	38.6	45.6	45.6	42.1	33.3	26.3	19.3	19.3
80°	47.3	43.8	47.3	29.8	33.3	38.6	33.3	31.6	24.5	17.5	17.5
82.5°	33.3	40.3	35.1	24.5	29.8	31.6	26.3	21.0	17.5	15.8	15.8
85°	24.5	26.3	21.0	19.3	22.8	26.3	21.0	15.8	14.0	14.0	14.0
87.5°	8.8	10.5	10.5	14.0	17.5	19.3	12.3	8.8	10.5	10.5	10.5
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)