

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: P507572

Luminaire Tested: **VERD-S-CA1-50-722-U-T4-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507572
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-CA1-50-722-U-T4-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 940mA LED AND TYPE IV OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5400 lumens
Efficiency: N/A
Efficacy: 100.9 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

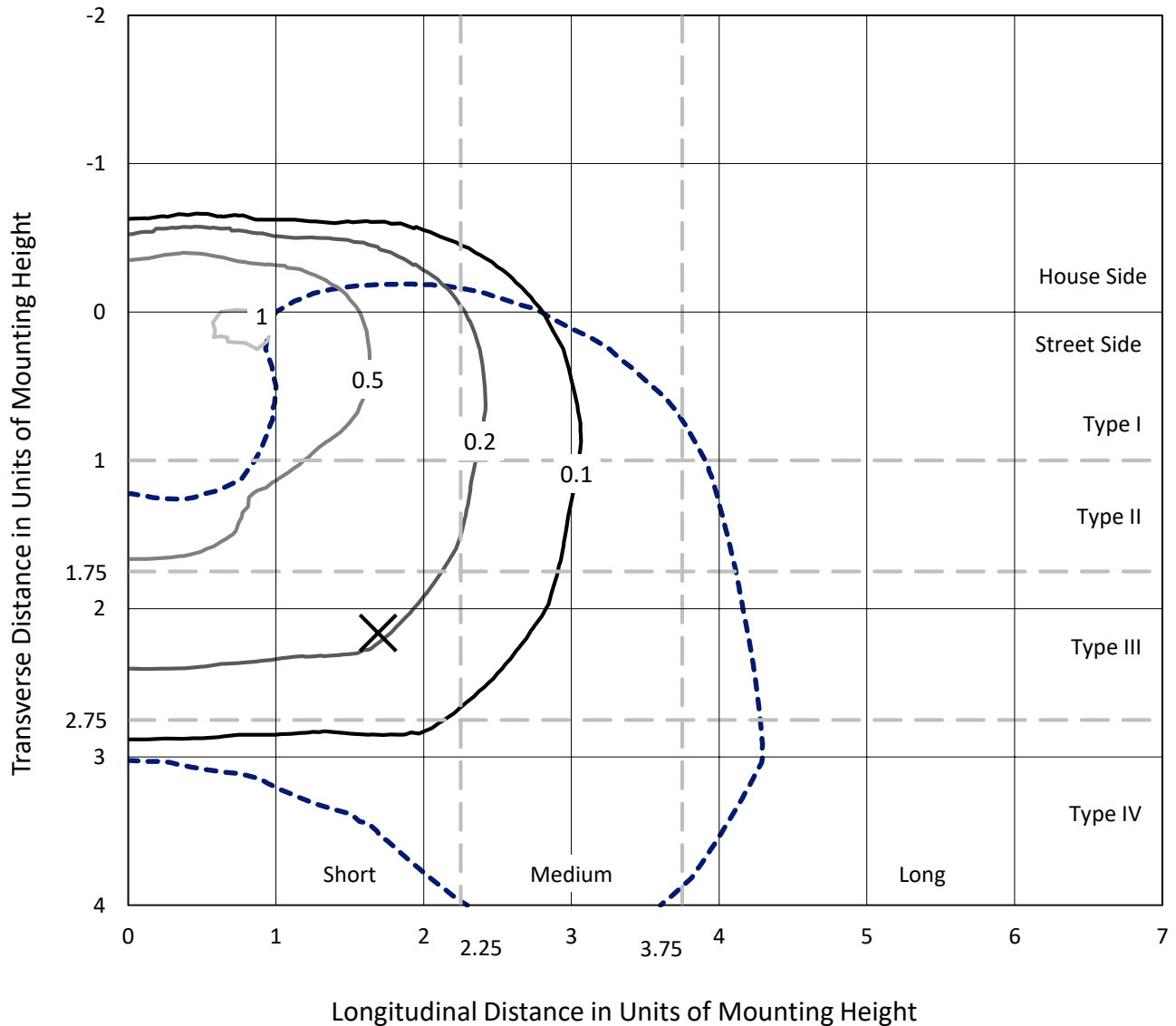
Input Watts (W): 53.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

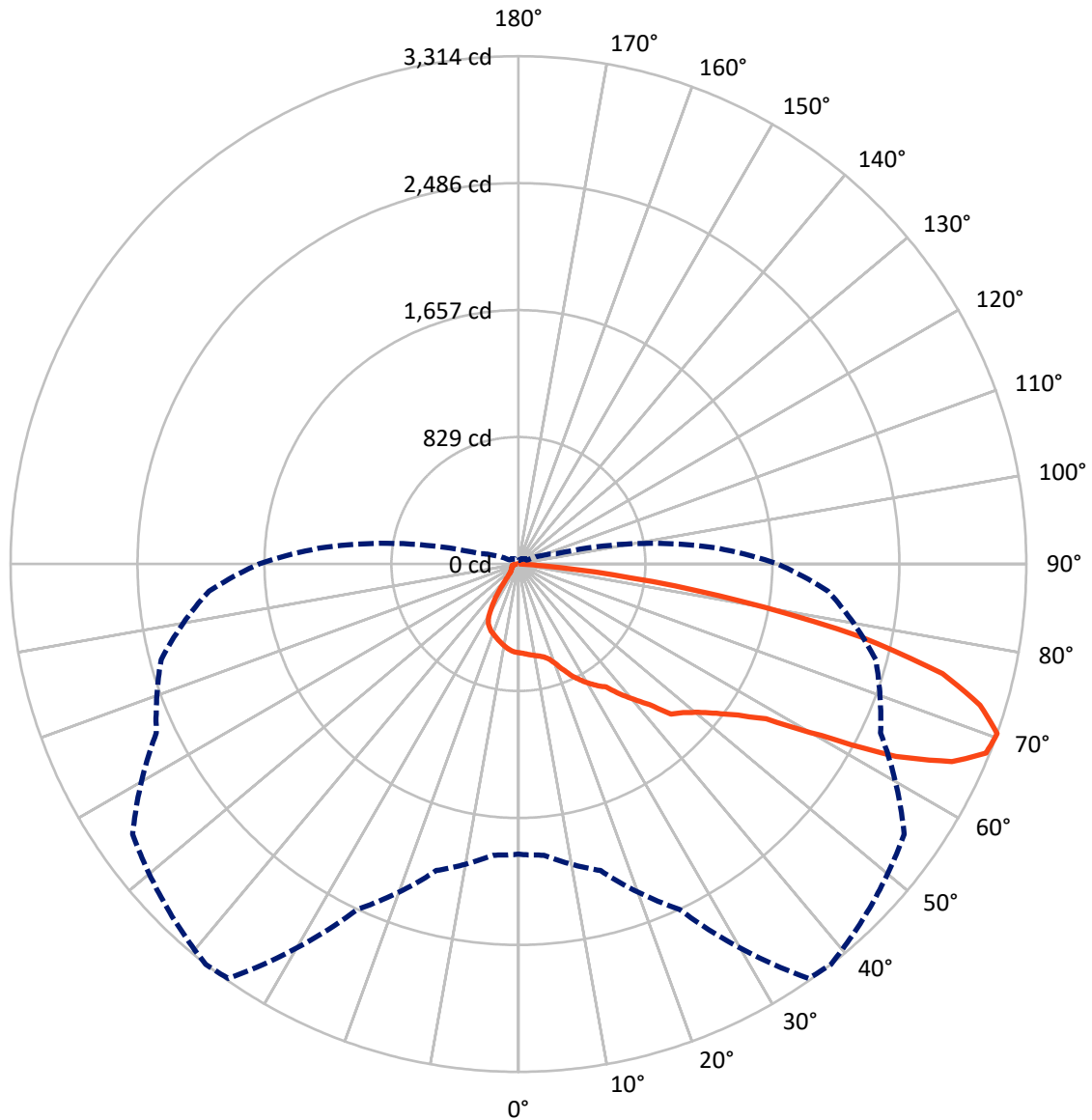
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 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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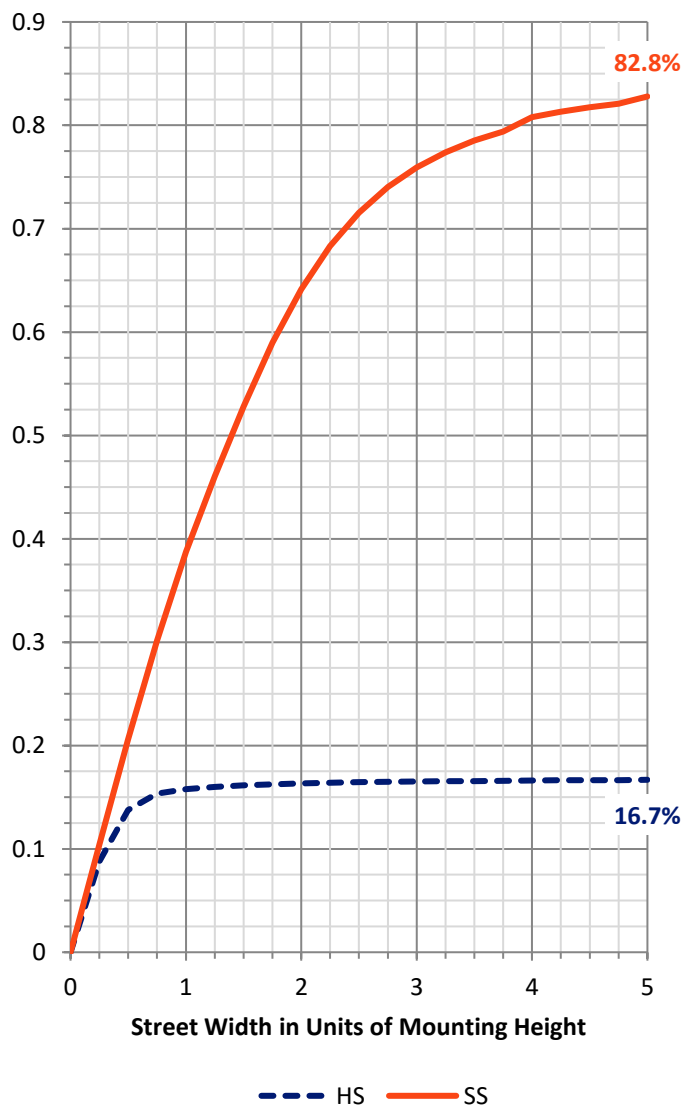
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	913.6	0.0	913.6
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	4486.4	0.0	4486.4
	% Fixture	83.1	0.0	83.1
Total	Lumens	5400.0	0.0	5400.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.3	1.0
10°-20°	167.7	3.1
20°-30°	308.7	5.7
30°-40°	483.3	9.0
40°-50°	734.3	13.6
50°-60°	1055.8	19.6
60°-70°	1418.3	26.3
70°-80°	1050.8	19.5
80°-90°	125.7	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°	5400.0	100.0
0°-180°	5400.0	100.0

Coefficient of Utilization



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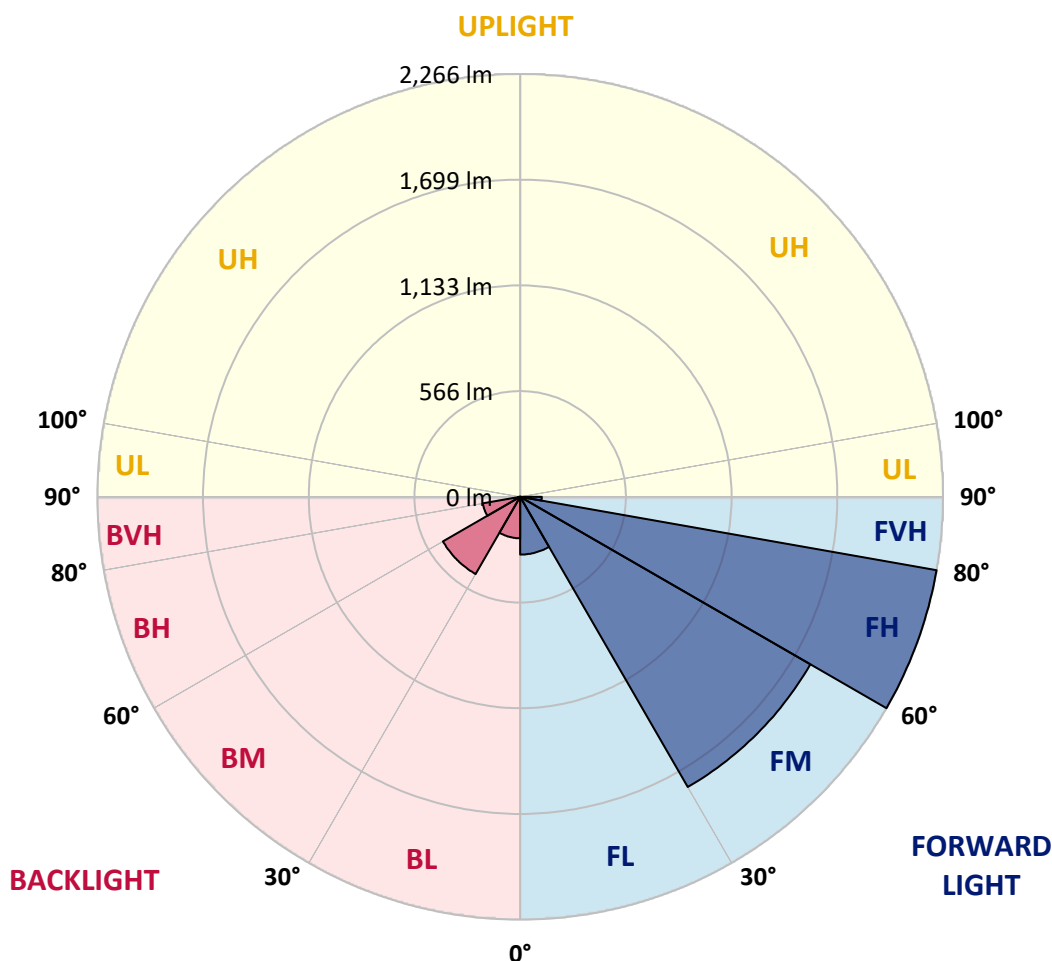
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	309.6	5.7			
FM	(30°-60°)	1795.5	33.2			
FH	(60°-80°)	2265.8	42.0			G2/5000
FVH	(80°-90°)	115.6	2.1			G2/225
BL	(0°-30°)	222.2	4.1	B1/500		
BM	(30°-60°)	477.9	8.8	B1/1000		
BH	(60°-80°)	203.4	3.8	B1/500		G1/500
BVH	(80°-90°)	10.1	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°	578.8	578.8	578.8	578.8	578.8	578.8	578.8	578.8	578.8	578.8	578.8
2.5°	587.3	587.3	587.3	585.6	585.6	583.9	583.9	582.2	582.2	580.5	578.8
5°	595.9	595.9	594.2	592.5	590.8	590.8	590.8	589.0	585.6	585.6	582.2
7.5°	599.3	599.3	599.3	599.3	599.3	599.3	599.3	597.6	595.9	594.2	590.8
10°	601.0	601.0	602.7	602.7	606.1	607.8	607.8	609.5	607.8	604.4	601.0
12.5°	606.1	607.8	607.8	609.5	614.7	616.4	618.1	623.2	623.2	619.8	616.4
15°	616.4	616.4	618.1	621.5	628.3	630.0	635.1	640.3	643.7	640.3	636.8
17.5°	647.1	647.1	647.1	647.1	650.5	652.2	659.0	667.6	671.0	671.0	669.3
20°	708.6	708.6	705.1	698.3	694.9	694.9	693.2	696.6	703.4	708.6	710.3
22.5°	778.6	776.9	775.1	764.9	753.0	749.5	746.1	742.7	746.1	754.7	758.1
25°	833.2	834.9	833.2	819.5	809.3	807.6	802.5	804.2	804.2	805.9	811.0
27.5°	877.6	881.0	874.2	867.3	860.5	855.4	858.8	863.9	872.5	869.1	879.3
30°	927.1	925.4	918.6	910.0	904.9	903.2	901.5	920.3	944.2	954.4	966.4
32.5°	1015.9	1014.2	1000.5	957.8	945.9	945.9	949.3	973.2	1010.8	1043.2	1073.9
35°	1097.8	1097.8	1080.8	1051.7	1000.5	985.2	993.7	1022.7	1077.4	1142.2	1191.7
37.5°	1195.2	1196.9	1178.1	1133.7	1092.7	1077.4	1036.4	1077.4	1143.9	1268.6	1330.0
40°	1307.8	1304.4	1273.7	1225.9	1173.0	1161.0	1126.9	1135.4	1229.3	1417.1	1476.9
42.5°	1371.0	1367.6	1347.1	1309.6	1266.9	1253.2	1222.5	1213.9	1343.7	1581.0	1620.3
45°	1432.5	1435.9	1434.2	1415.4	1405.2	1396.6	1379.6	1381.3	1485.4	1743.2	1744.9
47.5°	1468.3	1475.2	1447.9	1446.1	1447.9	1447.9	1471.8	1519.6	1620.3	1881.5	1854.2
50°	1574.2	1567.4	1483.7	1487.1	1509.3	1519.6	1564.0	1634.0	1808.1	2001.0	1948.1
52.5°	1787.6	1739.8	1634.0	1582.7	1591.3	1616.9	1669.8	1770.5	1995.9	2118.8	2031.8
55°	2026.6	2006.2	1896.9	1765.4	1707.4	1739.8	1796.2	1902.0	2144.5	2219.6	2101.8
57.5°	2192.3	2200.8	2204.2	2098.4	1895.2	1905.4	1941.3	2033.5	2277.6	2322.0	2154.7
60°	2352.8	2364.7	2429.6	2414.2	2347.6	2272.5	2132.5	2163.2	2392.0	2395.4	2195.7
62.5°	2480.8	2487.6	2591.8	2639.6	2759.1	2764.2	2537.2	2342.5	2508.1	2448.4	2211.0
65°	2415.9	2434.7	2586.7	2731.8	3071.6	3109.1	3020.3	2571.3	2596.9	2472.3	2200.8
67.5°	2197.4	2228.1	2371.5	2704.5	3266.2	3291.8	3213.3	2986.2	2629.4	2463.7	2144.5
70°	1893.5	1907.1	2071.0	2485.9	3302.1	3314.0	3216.7	3073.3	2607.2	2414.2	2026.6
72.5°	1540.0	1555.4	1697.1	2137.6	3139.9	3150.1	3124.5	3005.0	2554.2	2322.0	1787.6
75°	1155.9	1179.8	1314.7	1669.8	2772.8	2859.8	2912.8	2861.6	2407.4	2016.4	1360.8
77.5°	763.2	764.9	901.5	1261.7	2197.4	2284.5	2293.0	2250.3	1709.1	1265.2	604.4
80°	327.8	358.5	527.6	846.9	1459.8	1475.2	1492.2	1379.6	875.9	391.0	66.6
82.5°	109.3	121.2	222.0	447.3	718.8	735.9	705.1	611.2	245.9	52.9	37.6
85°	46.1	51.2	68.3	122.9	174.2	158.8	148.5	121.2	34.1	30.7	23.9
87.5°	1.7	1.7	1.7	1.7	3.4	1.7	3.4	3.4	5.1	5.1	6.8
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°	578.8	578.8	578.8	578.8	578.8	578.8	578.8	578.8	578.8	578.8	578.8
2.5°	578.8	578.8	578.8	577.1	577.1	575.4	575.4	573.7	573.7	573.7	573.7
5°	582.2	582.2	578.8	577.1	573.7	570.3	566.8	563.4	560.0	560.0	560.0
7.5°	589.0	587.3	582.2	575.4	568.6	560.0	554.9	548.1	544.7	541.2	542.9
10°	599.3	595.9	589.0	578.8	565.1	551.5	539.5	529.3	524.2	519.0	517.3
12.5°	612.9	609.5	599.3	583.9	563.4	542.9	524.2	508.8	498.6	493.4	491.7
15°	633.4	628.3	614.7	592.5	563.4	532.7	507.1	484.9	467.8	457.6	457.6
17.5°	665.9	660.8	642.0	611.2	570.3	527.6	488.3	450.7	428.5	416.6	414.9
20°	708.6	701.7	679.5	635.1	582.2	525.9	467.8	420.0	382.5	362.0	360.3
22.5°	758.1	753.0	718.8	660.8	594.2	522.5	452.5	389.3	336.4	298.8	290.3
25°	816.1	807.6	756.4	681.2	597.6	513.9	430.3	356.8	283.4	237.3	228.8
27.5°	884.4	865.6	790.5	696.6	595.9	496.8	404.6	310.7	215.1	181.0	175.9
30°	957.8	925.4	824.7	706.9	585.6	469.5	360.3	232.2	155.4	134.9	129.8
32.5°	1041.5	990.3	855.4	708.6	563.4	432.0	285.1	158.8	111.0	99.0	97.3
35°	1142.2	1072.2	887.8	701.7	531.0	370.5	198.1	107.6	82.0	78.5	78.5
37.5°	1273.7	1176.4	923.7	681.2	481.5	286.8	131.5	73.4	71.7	73.4	73.4
40°	1412.0	1295.9	968.1	650.5	418.3	206.6	83.7	68.3	68.3	70.0	70.0
42.5°	1543.5	1410.3	1024.4	609.5	346.6	133.2	68.3	64.9	63.2	64.9	66.6
45°	1654.4	1517.9	1079.1	565.1	264.6	85.4	66.6	61.5	58.1	59.8	59.8
47.5°	1753.5	1599.8	1109.8	512.2	186.1	66.6	66.6	56.3	52.9	52.9	54.6
50°	1837.1	1664.7	1126.9	450.7	117.8	64.9	59.8	52.9	49.5	49.5	47.8
52.5°	1907.1	1712.5	1125.2	382.5	76.8	63.2	56.3	49.5	44.4	46.1	46.1
55°	1960.1	1750.1	1099.5	293.7	64.9	59.8	54.6	46.1	42.7	46.1	46.1
57.5°	2001.0	1767.1	1051.7	204.9	63.2	54.6	51.2	42.7	39.3	41.0	41.0
60°	2021.5	1758.6	976.6	128.1	61.5	52.9	47.8	39.3	35.9	34.1	35.9
62.5°	2014.7	1727.9	869.1	85.4	58.1	49.5	44.4	37.6	32.4	29.0	29.0
65°	1973.7	1659.6	741.0	71.7	56.3	49.5	42.7	35.9	29.0	27.3	27.3
67.5°	1881.5	1517.9	549.8	66.6	56.3	47.8	41.0	34.1	29.0	25.6	25.6
70°	1692.0	1263.5	264.6	61.5	56.3	49.5	41.0	32.4	27.3	23.9	23.9
72.5°	1369.3	893.0	68.3	52.9	54.6	49.5	42.7	32.4	25.6	22.2	22.2
75°	893.0	428.5	58.1	42.7	49.5	46.1	41.0	32.4	25.6	20.5	20.5
77.5°	290.3	59.8	52.9	37.6	44.4	44.4	41.0	32.4	25.6	18.8	18.8
80°	46.1	42.7	46.1	29.0	32.4	37.6	32.4	30.7	23.9	17.1	17.1
82.5°	32.4	39.3	34.1	23.9	29.0	30.7	25.6	20.5	17.1	15.4	15.4
85°	23.9	25.6	20.5	18.8	22.2	25.6	20.5	15.4	13.7	13.7	13.7
87.5°	8.5	10.2	10.2	13.7	17.1	18.8	12.0	8.5	10.2	10.2	10.2
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)