

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: P507456

Luminaire Tested: **VERD-S-CA1-20-750-U-T2-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507456
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-20-750-U-T2-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 430mA LED AND TYPE II OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3335 lumens
Efficiency: N/A
Efficacy: 142.5 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

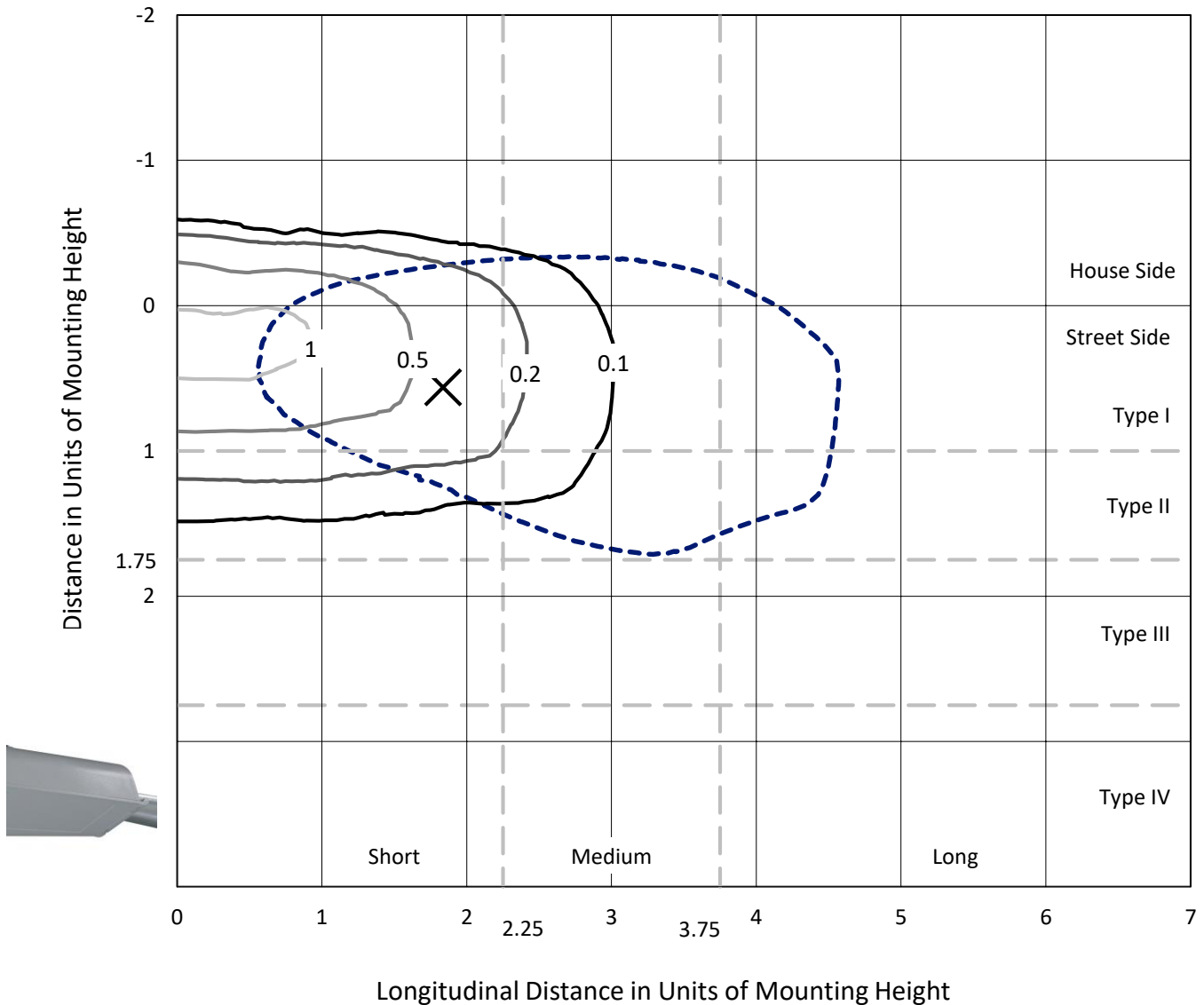
Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

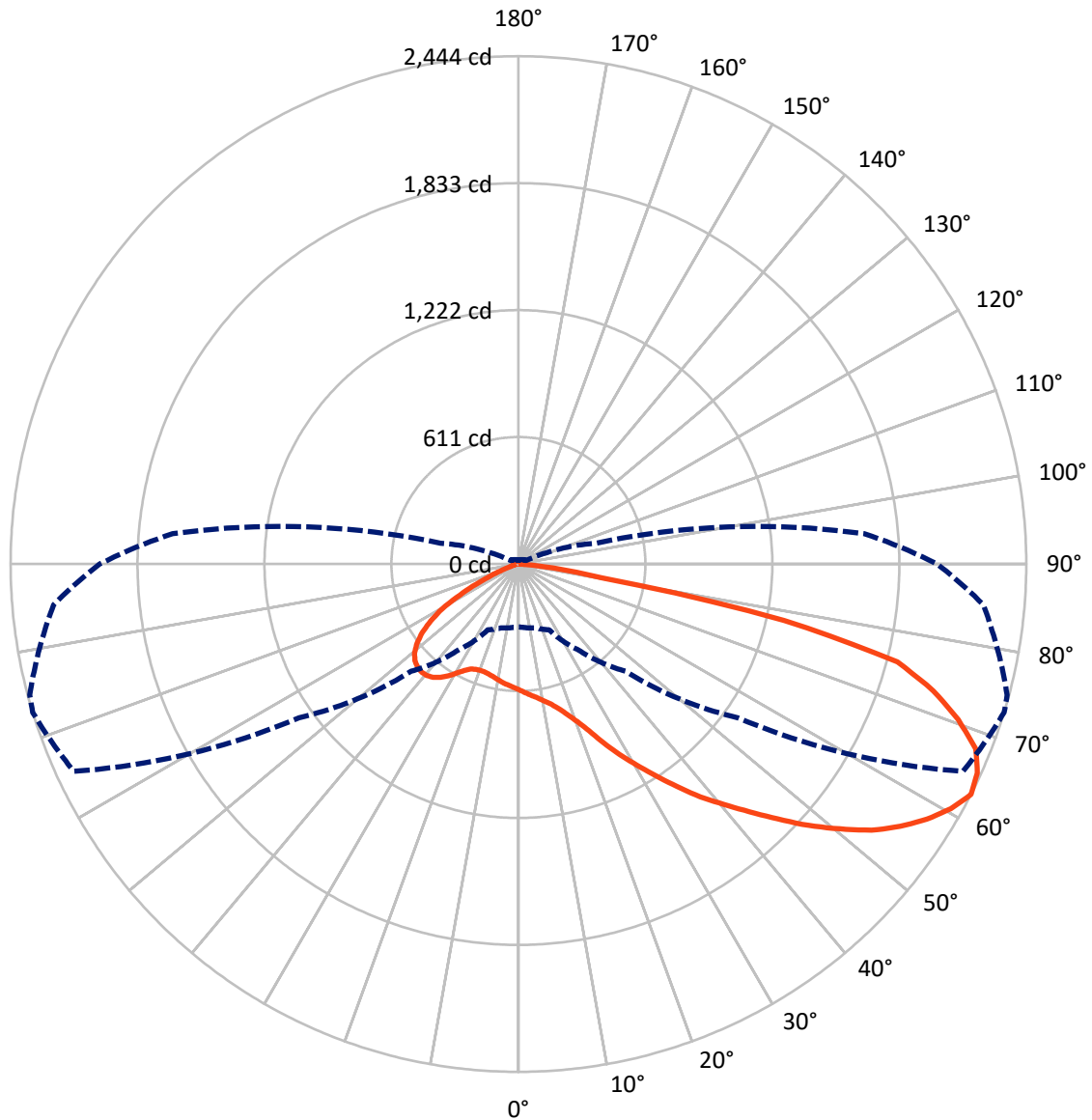
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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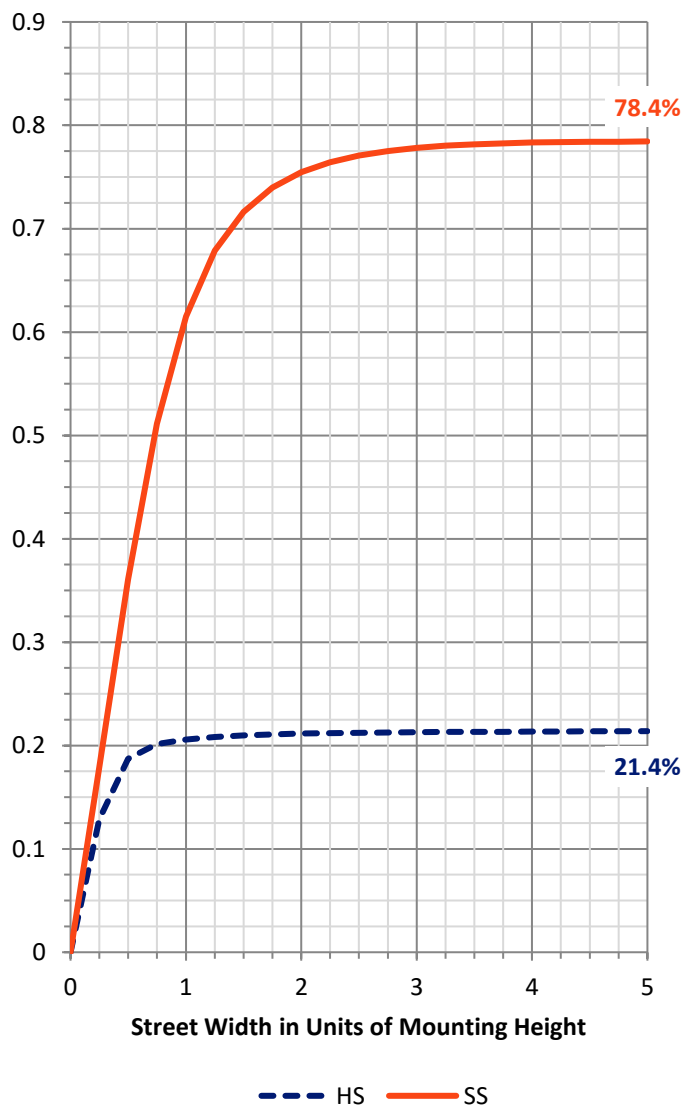
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	722.4	0.0	722.4
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	2612.6	0.0	2612.6
	% Fixture	78.3	0.0	78.3
Total	Lumens	3335.0	0.0	3335.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.9	1.7
10°-20°	174.4	5.2
20°-30°	301.7	9.0
30°-40°	443.1	13.3
40°-50°	575.9	17.3
50°-60°	667.7	20.0
60°-70°	672.0	20.2
70°-80°	409.5	12.3
80°-90°	32.6	1.0
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°	3335.0	100.0
0°-180°	3335.0	100.0

Coefficient of Utilization



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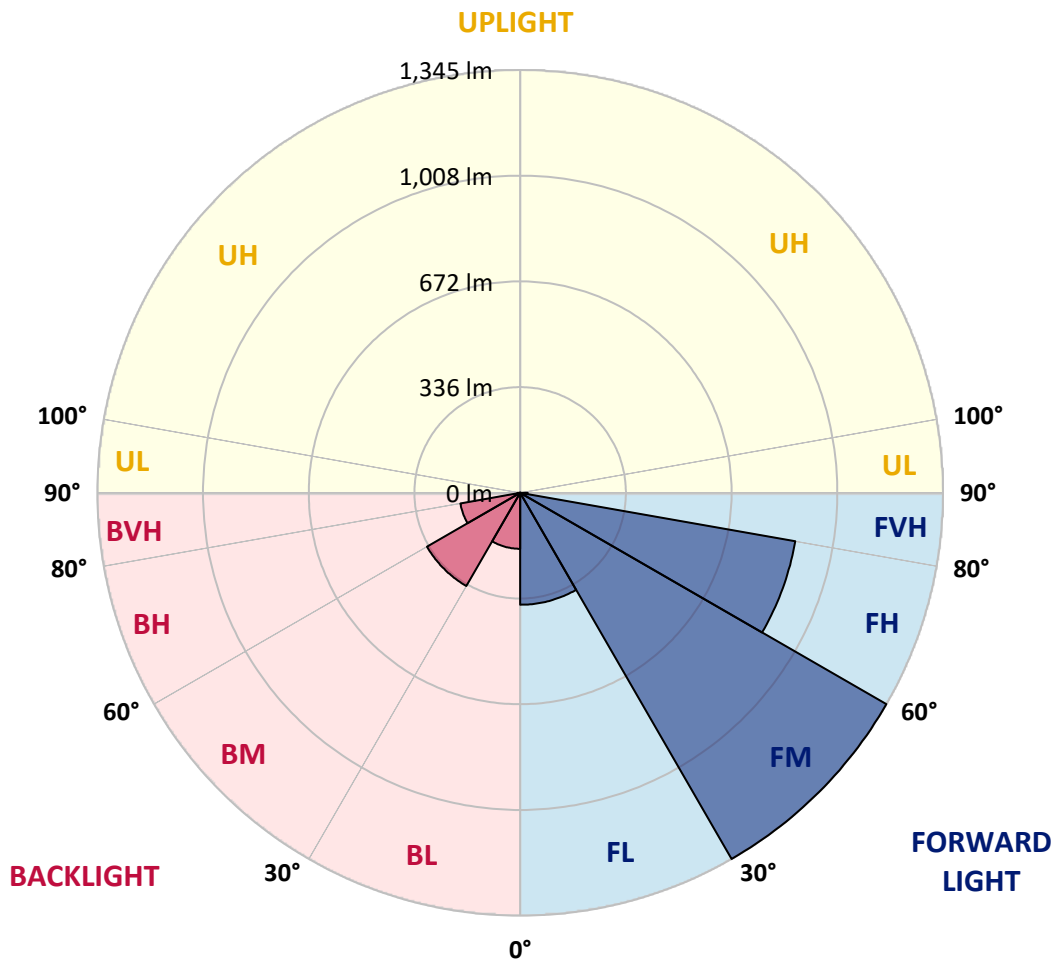
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	356.0	10.7			
FM (30°-60°)	1344.6	40.3			
FH (60°-80°)	888.4	26.6			G1/1800
FVH (80°-90°)	23.7	0.7			G1/100
BL (0°-30°)	178.1	5.3	B1/500		
BM (30°-60°)	342.2	10.3	B1/1000		
BH (60°-80°)	193.2	5.8	B1/500		G1/500
BVH (80°-90°)	8.9	0.3			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	605.8	605.8	605.8	605.8	605.8	605.8	605.8	605.8	605.8	605.8	605.8
2.5°	646.6	646.6	645.5	644.5	640.4	636.4	630.3	625.2	620.1	618.0	609.9
5°	684.2	684.2	683.2	679.1	674.0	666.9	656.7	643.5	634.3	633.3	619.1
7.5°	715.8	714.8	713.8	711.7	706.6	697.5	682.2	664.9	649.6	645.5	628.2
10°	746.3	747.4	745.3	740.2	734.1	722.9	707.7	687.3	669.0	662.8	636.4
12.5°	778.9	777.9	774.9	768.7	760.6	751.4	735.1	714.8	690.3	684.2	649.6
15°	806.4	807.4	802.3	798.3	790.1	779.9	765.7	745.3	720.9	713.8	669.0
17.5°	830.9	830.9	829.8	827.8	821.7	814.6	800.3	786.1	760.6	749.4	698.5
20°	849.2	850.2	852.2	856.3	857.3	851.2	844.1	833.9	809.5	798.3	735.1
22.5°	865.5	867.5	875.7	887.9	898.1	898.1	897.0	896.0	871.6	864.5	789.1
25°	869.5	872.6	890.9	917.4	933.7	946.9	965.3	972.4	954.1	941.8	859.4
27.5°	875.7	878.7	899.1	930.6	971.4	1000.9	1033.5	1051.8	1038.6	1026.3	939.8
30°	870.6	874.6	897.0	941.8	995.8	1057.9	1098.6	1126.1	1122.1	1114.9	1023.3
32.5°	857.3	861.4	887.9	942.9	1025.3	1115.9	1161.8	1204.5	1215.7	1209.6	1110.9
35°	830.9	834.9	867.5	934.7	1039.6	1159.7	1224.9	1288.0	1313.5	1309.4	1206.6
37.5°	797.3	797.3	835.9	910.3	1044.7	1193.3	1280.9	1371.5	1421.4	1415.3	1303.3
40°	741.3	751.4	799.3	883.8	1036.5	1217.8	1334.9	1458.1	1520.2	1517.1	1408.2
42.5°	685.3	693.4	739.2	838.0	1017.2	1232.0	1379.7	1548.7	1629.1	1627.1	1509.0
45°	635.4	641.5	679.1	774.9	976.5	1236.1	1422.4	1645.4	1749.3	1745.2	1611.8
47.5°	571.2	583.4	631.3	715.8	920.5	1223.9	1462.1	1766.6	1879.6	1875.5	1722.8
50°	432.7	440.9	540.7	667.9	848.2	1193.3	1494.7	1885.7	2002.8	1994.7	1823.6
52.5°	393.0	398.1	429.7	608.9	781.0	1138.4	1515.1	2028.3	2128.0	2114.8	1927.5
55°	367.6	371.6	390.0	487.7	721.9	1045.7	1521.2	2162.7	2228.8	2215.6	2023.2
57.5°	345.2	347.2	365.5	415.4	651.6	928.6	1499.8	2262.4	2317.4	2303.2	2105.6
60°	321.8	324.8	342.1	378.8	567.1	820.7	1433.6	2341.9	2390.7	2378.5	2177.9
62.5°	302.4	306.5	317.7	349.2	506.0	729.0	1289.0	2360.2	2443.7	2434.5	2245.1
65°	279.0	282.0	296.3	322.8	442.9	672.0	1142.4	2306.2	2426.4	2437.6	2282.8
67.5°	251.5	254.6	266.8	287.1	371.6	611.9	1014.1	2229.9	2373.4	2388.7	2255.3
70°	217.9	219.9	232.2	251.5	308.5	533.5	879.7	2117.9	2245.1	2256.3	2146.4
72.5°	181.2	181.2	190.4	212.8	253.5	441.9	705.6	1881.6	2088.3	2115.8	1962.1
75°	76.4	80.4	96.7	117.1	161.9	322.8	482.6	1448.9	1883.7	1907.1	1733.0
77.5°	15.3	16.3	18.3	27.5	42.8	140.5	149.7	632.3	1307.4	1322.6	1265.6
80°	12.2	12.2	13.2	20.4	28.5	65.2	48.9	206.7	407.3	524.4	676.1
82.5°	4.1	5.1	7.1	11.2	14.3	14.3	16.3	103.9	201.6	216.9	272.9
85°	2.0	2.0	3.1	4.1	4.1	4.1	4.1	18.3	34.6	41.7	58.0
87.5°	1.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0	3.1	3.1	4.1
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°	605.8	605.8	605.8	605.8	605.8	605.8	605.8	605.8	605.8	605.8	605.8
2.5°	605.8	602.8	595.6	590.6	583.4	577.3	570.2	566.1	564.1	563.1	561.0
5°	610.9	602.8	588.5	573.2	560.0	549.8	535.6	528.4	524.4	522.3	521.3
7.5°	617.0	606.8	582.4	559.0	535.6	518.3	501.0	489.8	484.7	483.6	482.6
10°	621.1	604.8	572.2	546.8	516.2	488.7	468.4	455.1	448.0	447.0	446.0
12.5°	629.2	607.9	564.1	527.4	495.9	460.2	438.8	423.6	416.4	410.3	410.3
15°	642.5	615.0	560.0	511.1	469.4	434.8	407.3	391.0	385.9	377.8	375.7
17.5°	664.9	628.2	557.0	494.8	445.0	410.3	377.8	360.4	357.4	350.3	346.2
20°	692.4	647.6	559.0	479.6	419.5	379.8	347.2	329.9	319.7	313.6	311.6
22.5°	736.2	676.1	566.1	468.4	397.1	352.3	317.7	290.2	267.8	259.6	259.6
25°	798.3	725.0	578.3	459.2	374.7	325.8	283.1	236.2	206.7	195.5	192.4
27.5°	868.5	787.1	606.8	451.1	356.4	296.3	233.2	181.2	149.7	139.5	139.5
30°	949.0	852.2	641.5	446.0	334.0	251.5	176.1	132.4	106.9	95.7	94.7
32.5°	1028.4	919.4	682.2	441.9	310.6	196.5	127.3	96.7	75.3	67.2	68.2
35°	1107.8	985.6	716.8	441.9	271.9	141.5	90.6	67.2	54.0	49.9	49.9
37.5°	1197.4	1059.9	744.3	435.8	213.8	100.8	62.1	48.9	44.8	42.8	42.8
40°	1290.1	1129.2	762.6	422.6	152.7	69.2	43.8	42.8	40.7	37.7	36.7
42.5°	1376.6	1208.6	773.8	397.1	99.8	45.8	38.7	39.7	38.7	33.6	32.6
45°	1468.2	1272.8	779.9	346.2	66.2	37.7	34.6	36.7	37.7	33.6	32.6
47.5°	1559.9	1343.0	784.0	269.8	43.8	36.7	32.6	35.6	36.7	32.6	31.6
50°	1656.6	1407.2	777.9	173.1	38.7	34.6	31.6	32.6	34.6	32.6	31.6
52.5°	1741.1	1465.2	749.4	96.7	37.7	33.6	29.5	30.5	33.6	31.6	31.6
55°	1827.7	1522.2	696.5	57.0	36.7	31.6	29.5	30.5	31.6	29.5	30.5
57.5°	1906.1	1577.2	617.0	46.8	36.7	30.5	30.5	28.5	28.5	26.5	26.5
60°	1966.1	1627.1	522.3	43.8	34.6	31.6	28.5	26.5	24.4	22.4	22.4
62.5°	2014.0	1669.9	387.9	40.7	33.6	30.5	26.5	23.4	20.4	18.3	18.3
65°	2040.5	1679.0	273.9	36.7	31.6	29.5	24.4	20.4	16.3	15.3	15.3
67.5°	2009.9	1631.2	167.0	34.6	29.5	28.5	23.4	18.3	14.3	13.2	13.2
70°	1892.8	1502.9	93.7	31.6	26.5	25.5	21.4	16.3	13.2	11.2	11.2
72.5°	1699.4	1314.5	46.8	26.5	22.4	22.4	19.3	14.3	12.2	10.2	10.2
75°	1435.7	1078.3	33.6	19.3	18.3	18.3	16.3	13.2	11.2	9.2	9.2
77.5°	1051.8	710.7	27.5	16.3	13.2	13.2	14.3	12.2	10.2	8.1	8.1
80°	544.7	352.3	23.4	12.2	11.2	10.2	10.2	10.2	8.1	7.1	7.1
82.5°	241.3	135.4	15.3	9.2	9.2	8.1	8.1	8.1	7.1	6.1	6.1
85°	46.8	25.5	8.1	7.1	6.1	6.1	6.1	5.1	5.1	5.1	5.1
87.5°	4.1	4.1	4.1	4.1	4.1	3.1	3.1	3.1	3.1	3.1	3.1
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)