

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: P507477

Luminaire Tested: **VERD-S-CA1-30-722-U-T4**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507477
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-30-722-U-T4
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 590mA LED AND TYPE IV OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3876.4 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

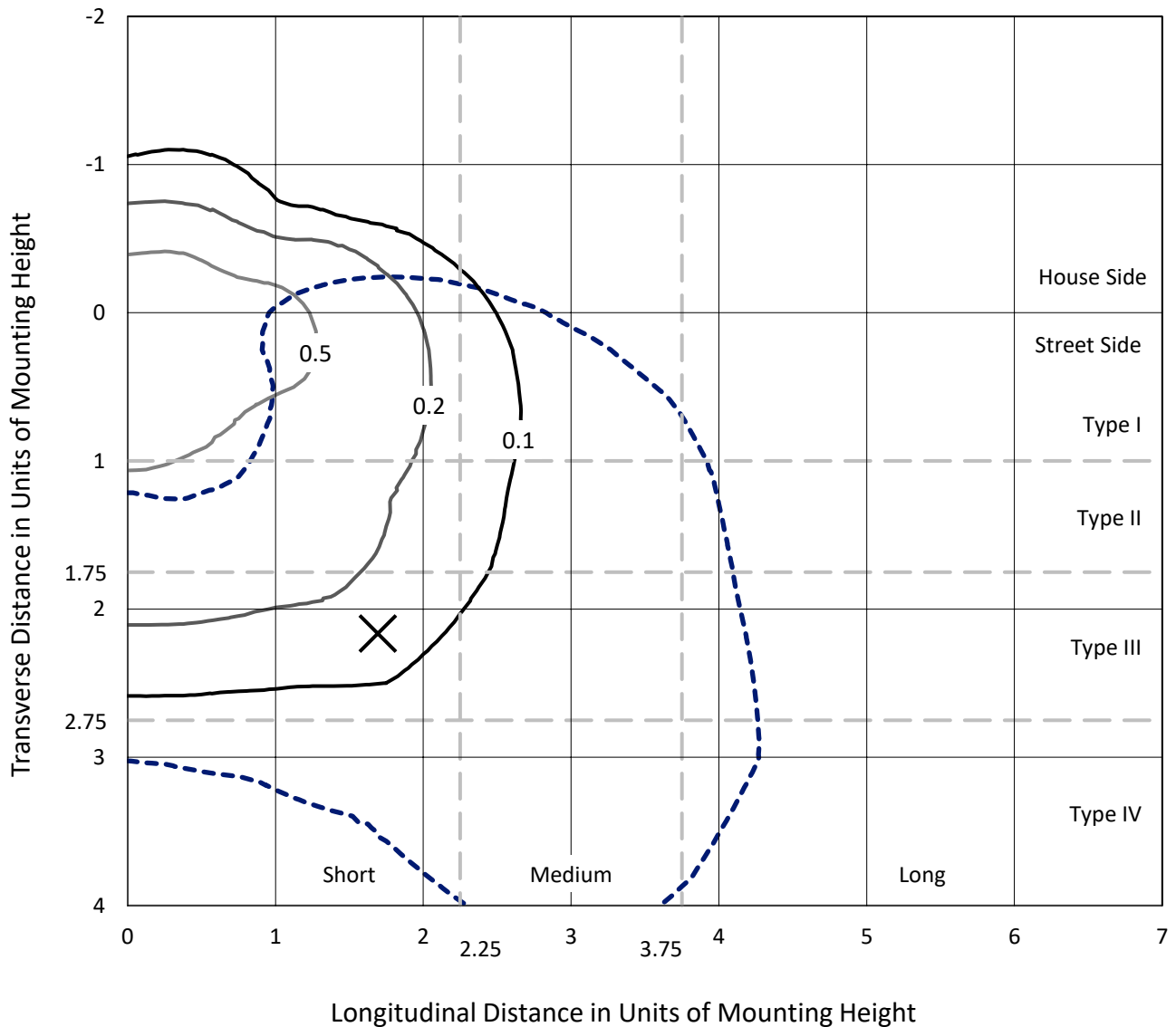
Input Watts (W): 34
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

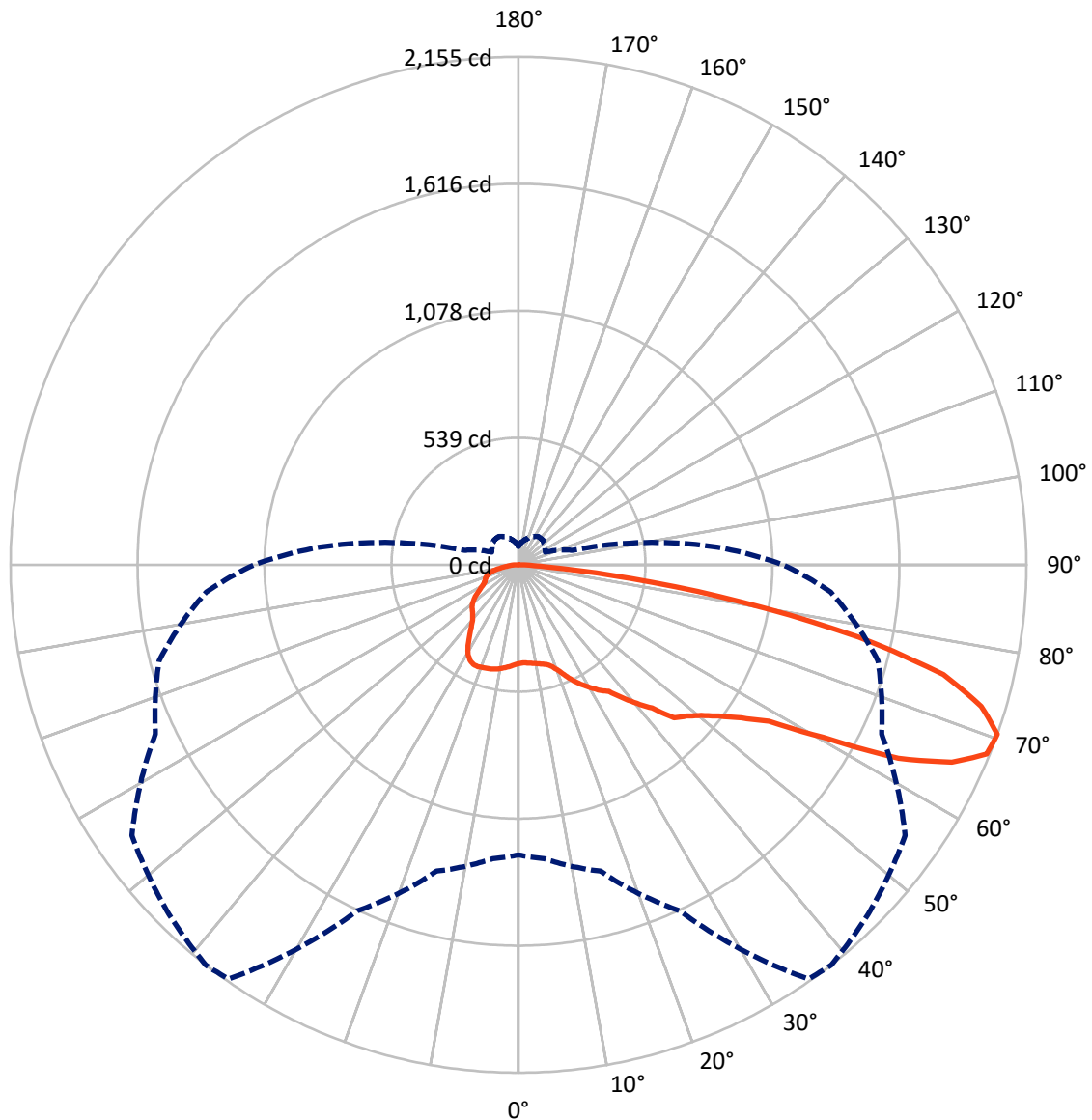
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 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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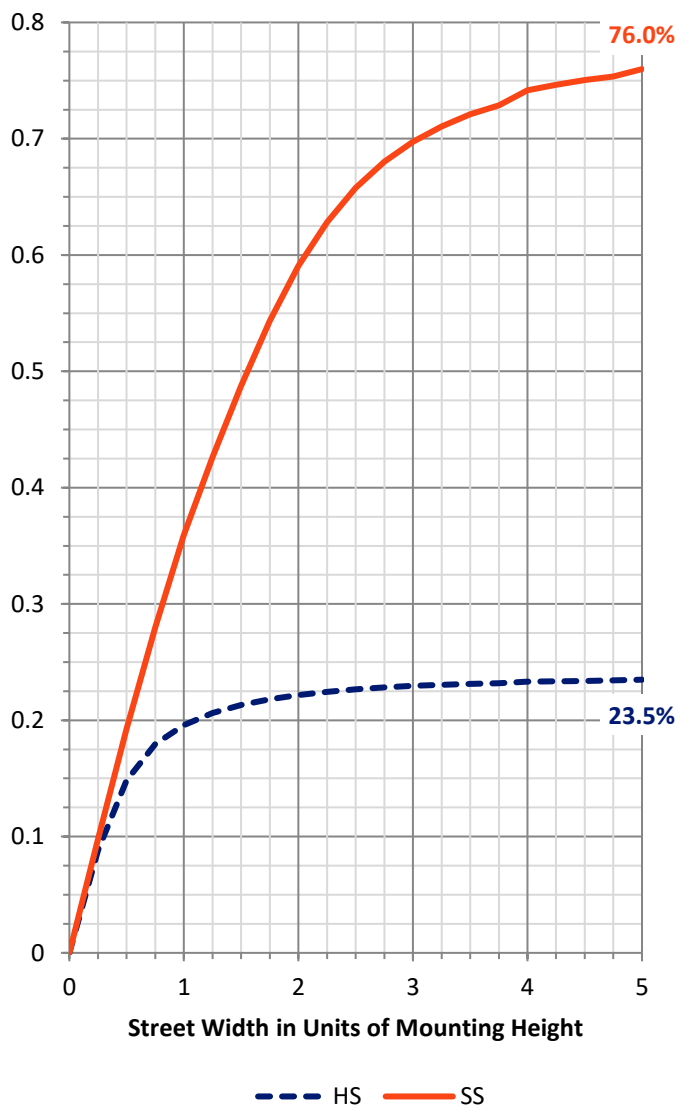
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	920.7	0.0	920.7
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	2955.7	0.0	2955.7
	% Fixture	76.2	0.0	76.2
Total	Lumens	3876.4	0.0	3876.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.8	1.1
10°-20°	128.7	3.3
20°-30°	238.8	6.2
30°-40°	369.7	9.5
40°-50°	547.8	14.1
50°-60°	763.3	19.7
60°-70°	980.2	25.3
70°-80°	717.2	18.5
80°-90°	89.8	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°	3876.4	100.0
0°-180°	3876.4	100.0

Coefficient of Utilization



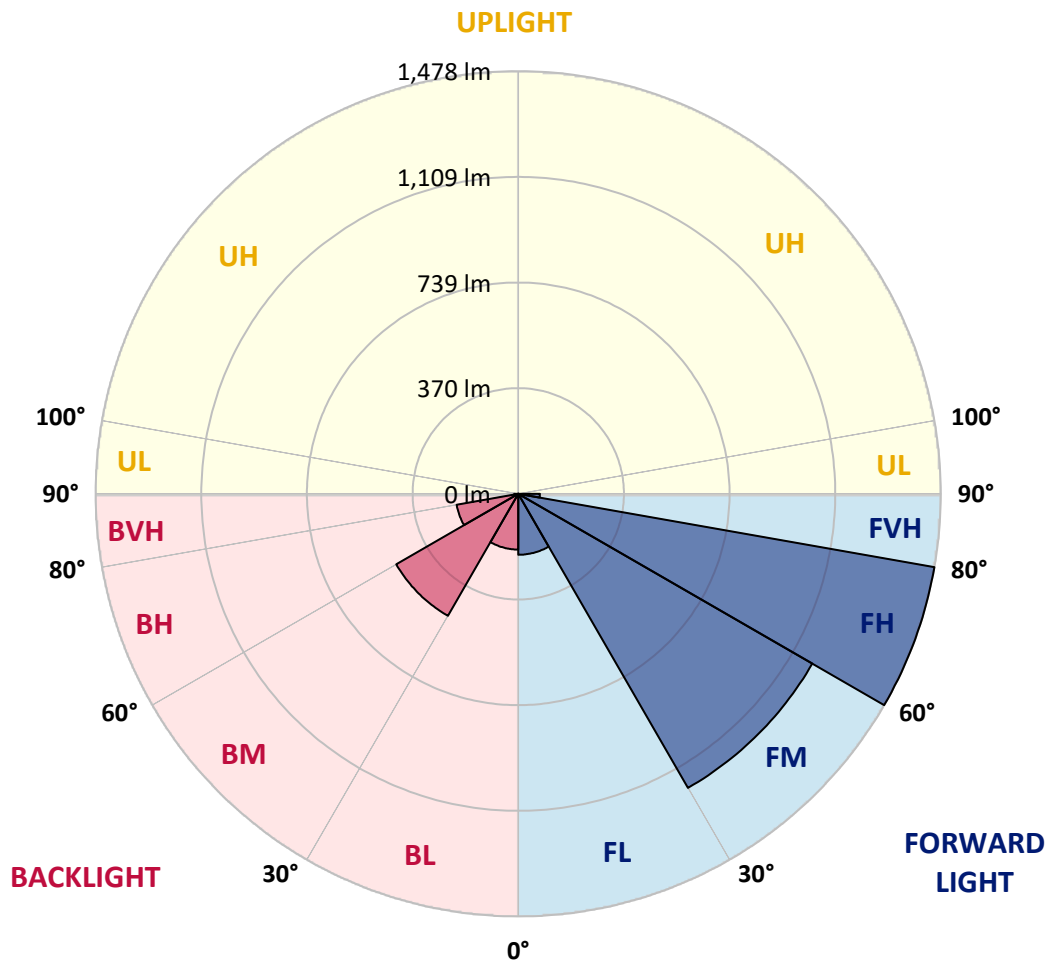
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	213.3	5.5			
FM (30°-60°)	1188.0	30.6			
FH (60°-80°)	1478.5	38.1			G1/1800
FVH (80°-90°)	75.9	2.0			G1/100
BL (0°-30°)	195.0	5.0	B1/500		
BM (30°-60°)	492.8	12.7	B1/1000		
BH (60°-80°)	218.9	5.6	B1/500		G1/500
BVH (80°-90°)	13.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	418.8	418.8	418.8	418.8	418.8	418.8	418.8	418.8	418.8	418.8	418.8
2.5°	417.8	417.8	417.8	416.6	416.6	416.6	415.6	415.6	416.6	417.8	417.8
5°	421.1	421.1	420.0	420.0	418.8	418.8	418.8	417.8	417.8	417.8	420.0
7.5°	422.2	422.2	422.2	422.2	422.2	422.2	423.3	422.2	422.2	422.2	424.3
10°	422.2	422.2	423.3	423.3	425.5	426.6	427.7	429.9	429.9	429.9	431.0
12.5°	424.3	424.3	425.5	426.6	429.9	432.2	434.4	437.7	438.7	438.7	439.9
15°	428.8	428.8	429.9	433.2	437.7	438.7	442.1	446.4	450.9	452.0	453.1
17.5°	446.4	446.4	446.4	446.4	450.9	452.0	456.4	463.1	467.5	469.7	473.0
20°	481.9	482.9	480.7	479.7	477.4	477.4	477.4	480.7	486.2	494.0	499.6
22.5°	527.2	527.2	527.2	518.3	512.8	511.7	511.7	510.6	515.0	522.7	530.4
25°	562.5	563.7	562.5	554.8	548.1	546.0	546.0	549.3	549.3	555.9	564.7
27.5°	591.3	593.5	590.1	583.5	577.9	576.9	577.9	588.0	593.5	597.9	608.9
30°	622.2	623.3	615.6	611.2	607.9	605.7	606.7	621.1	639.8	645.4	664.2
32.5°	679.7	679.7	668.6	643.2	634.3	635.5	635.5	654.2	679.7	705.1	729.4
35°	733.9	732.7	722.8	700.7	667.5	659.8	664.2	684.1	723.8	767.0	810.1
37.5°	797.9	795.8	786.9	755.9	728.3	716.1	691.9	718.3	767.0	852.1	896.3
40°	869.7	866.4	846.6	815.7	779.2	773.7	752.6	757.0	821.2	941.7	992.4
42.5°	909.5	907.4	894.1	868.7	842.1	831.1	813.4	807.8	894.1	1057.6	1083.1
45°	947.2	951.5	951.5	939.3	928.3	926.1	913.9	918.4	988.0	1152.7	1162.7
47.5°	970.3	974.8	960.4	958.2	958.2	959.3	971.5	1001.3	1073.2	1242.2	1232.3
50°	1039.9	1036.7	979.2	988.0	997.9	1004.6	1031.2	1078.7	1191.3	1322.8	1293.0
52.5°	1165.9	1136.1	1067.6	1047.7	1053.3	1066.5	1101.8	1163.7	1311.8	1394.8	1346.1
55°	1321.8	1304.1	1242.2	1153.8	1125.1	1147.1	1184.8	1247.7	1404.7	1462.2	1388.1
57.5°	1426.7	1433.4	1441.1	1380.4	1246.7	1252.2	1277.6	1330.7	1497.5	1527.3	1421.2
60°	1532.8	1540.7	1583.7	1568.3	1537.3	1486.5	1393.6	1419.0	1567.1	1570.5	1445.5
62.5°	1616.8	1622.3	1686.4	1721.9	1802.5	1809.2	1664.3	1530.6	1640.1	1604.7	1455.5
65°	1574.8	1584.8	1680.9	1779.3	2001.5	2020.2	1972.7	1674.4	1696.4	1618.0	1447.8
67.5°	1433.4	1447.8	1549.4	1758.3	2128.5	2142.9	2096.5	1945.1	1716.4	1612.5	1410.2
70°	1231.1	1252.2	1346.1	1620.2	2146.2	2155.1	2097.5	2002.5	1699.8	1579.3	1329.5
72.5°	1001.3	1017.8	1112.9	1389.2	2039.0	2053.4	2035.8	1955.0	1664.3	1515.2	1167.1
75°	767.0	768.1	868.7	1088.6	1804.7	1862.2	1892.0	1863.3	1568.3	1332.9	898.5
77.5°	484.1	498.4	601.2	824.4	1417.9	1476.4	1489.8	1454.4	1097.4	817.8	386.8
80°	217.7	239.8	344.8	557.0	964.8	962.6	970.3	883.0	584.6	259.7	43.1
82.5°	78.5	82.8	144.7	279.6	467.5	479.7	474.2	407.8	158.1	36.5	26.6
85°	33.1	35.3	47.5	75.1	106.1	112.8	97.2	74.1	25.4	20.9	17.7
87.5°	2.2	2.2	2.2	2.2	2.2	3.3	3.3	3.3	3.3	4.4	5.5
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°	418.8	418.8	418.8	418.8	418.8	418.8	418.8	418.8	418.8	418.8	418.8
2.5°	417.8	418.8	420.0	422.2	422.2	423.3	424.3	425.5	425.5	425.5	425.5
5°	421.1	422.2	423.3	426.6	428.8	429.9	432.2	433.2	434.4	434.4	434.4
7.5°	425.5	426.6	428.8	432.2	435.4	437.7	439.9	440.9	442.1	442.1	442.1
10°	432.2	434.4	437.7	442.1	445.4	445.4	446.4	447.6	448.7	448.7	448.7
12.5°	440.9	443.2	448.7	454.3	455.3	454.3	452.0	452.0	450.9	449.8	449.8
15°	455.3	456.4	464.2	468.6	465.3	459.8	455.3	450.9	447.6	445.4	445.4
17.5°	475.2	478.5	486.2	486.2	477.4	467.5	456.4	445.4	436.5	433.2	432.2
20°	504.0	508.3	515.0	508.3	494.0	476.3	456.4	438.7	421.1	410.0	406.7
22.5°	535.9	541.6	543.8	529.4	508.3	484.1	457.6	429.9	401.2	376.8	370.3
25°	573.6	576.9	569.2	546.0	517.2	486.2	454.3	417.8	373.6	341.5	338.2
27.5°	617.8	614.4	593.5	558.2	519.4	481.9	442.1	393.4	338.2	313.9	310.5
30°	665.3	653.2	614.4	564.7	512.8	468.6	421.1	356.9	311.7	291.8	289.6
32.5°	721.7	697.4	634.3	565.9	500.6	445.4	386.8	327.1	294.0	271.9	269.7
35°	784.7	747.1	652.0	559.2	476.3	413.3	345.9	305.0	275.2	254.2	249.8
37.5°	869.7	814.5	674.1	544.8	445.4	372.4	316.1	281.8	256.4	233.2	229.9
40°	957.1	891.8	705.1	528.2	411.1	339.3	290.6	265.2	243.1	216.7	211.1
42.5°	1044.4	969.3	747.1	508.3	376.8	313.9	279.6	263.0	236.4	208.8	203.3
45°	1116.2	1035.5	786.9	485.2	342.6	290.6	272.9	258.7	232.1	202.3	195.6
47.5°	1178.1	1090.8	821.2	464.2	309.4	272.9	267.4	250.8	225.4	195.6	188.9
50°	1230.0	1135.0	848.8	446.4	281.8	260.8	256.4	236.4	210.0	184.6	180.2
52.5°	1275.3	1167.1	860.9	440.9	254.2	246.5	238.7	218.8	194.5	171.3	164.7
55°	1305.2	1191.3	858.7	440.9	227.7	226.6	217.7	202.3	184.6	165.8	159.1
57.5°	1328.4	1202.4	842.1	376.8	205.6	201.1	195.6	188.9	177.9	156.9	150.3
60°	1339.4	1195.8	806.8	274.1	183.4	175.7	180.2	177.9	166.8	138.2	133.7
62.5°	1332.9	1175.9	727.2	200.1	160.3	159.1	165.8	161.3	140.4	114.9	112.8
65°	1307.4	1126.2	625.5	150.3	146.9	154.8	158.1	149.2	129.3	106.1	97.2
67.5°	1242.2	1030.0	455.3	134.9	142.6	151.4	153.6	141.4	121.6	99.4	88.4
70°	1121.7	848.8	236.4	124.8	135.9	146.9	145.9	130.4	110.6	90.7	77.3
72.5°	909.5	602.3	89.5	111.6	126.0	137.0	134.9	117.1	78.5	56.4	50.9
75°	590.1	288.5	77.3	96.2	112.8	122.7	123.8	106.1	68.6	47.5	40.8
77.5°	202.3	53.0	62.9	79.6	97.2	110.6	107.2	85.1	53.0	35.3	32.1
80°	34.3	35.3	48.7	56.4	67.4	88.4	75.1	60.8	42.0	25.4	20.9
82.5°	24.3	29.8	34.3	33.1	46.4	58.6	50.9	40.8	27.6	19.9	17.7
85°	17.7	19.9	18.8	19.9	26.6	38.7	35.3	28.8	19.9	14.4	12.2
87.5°	6.7	6.7	8.9	11.0	16.6	24.3	20.9	8.9	7.7	6.7	6.7
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)