

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: P507461

Luminaire Tested: **VERD-S-CA1-20-750-U-T4**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507461
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-CA1-20-750-U-T4
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 430mA LED AND TYPE IV OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3572 lumens
Efficiency: N/A
Efficacy: 152.6 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

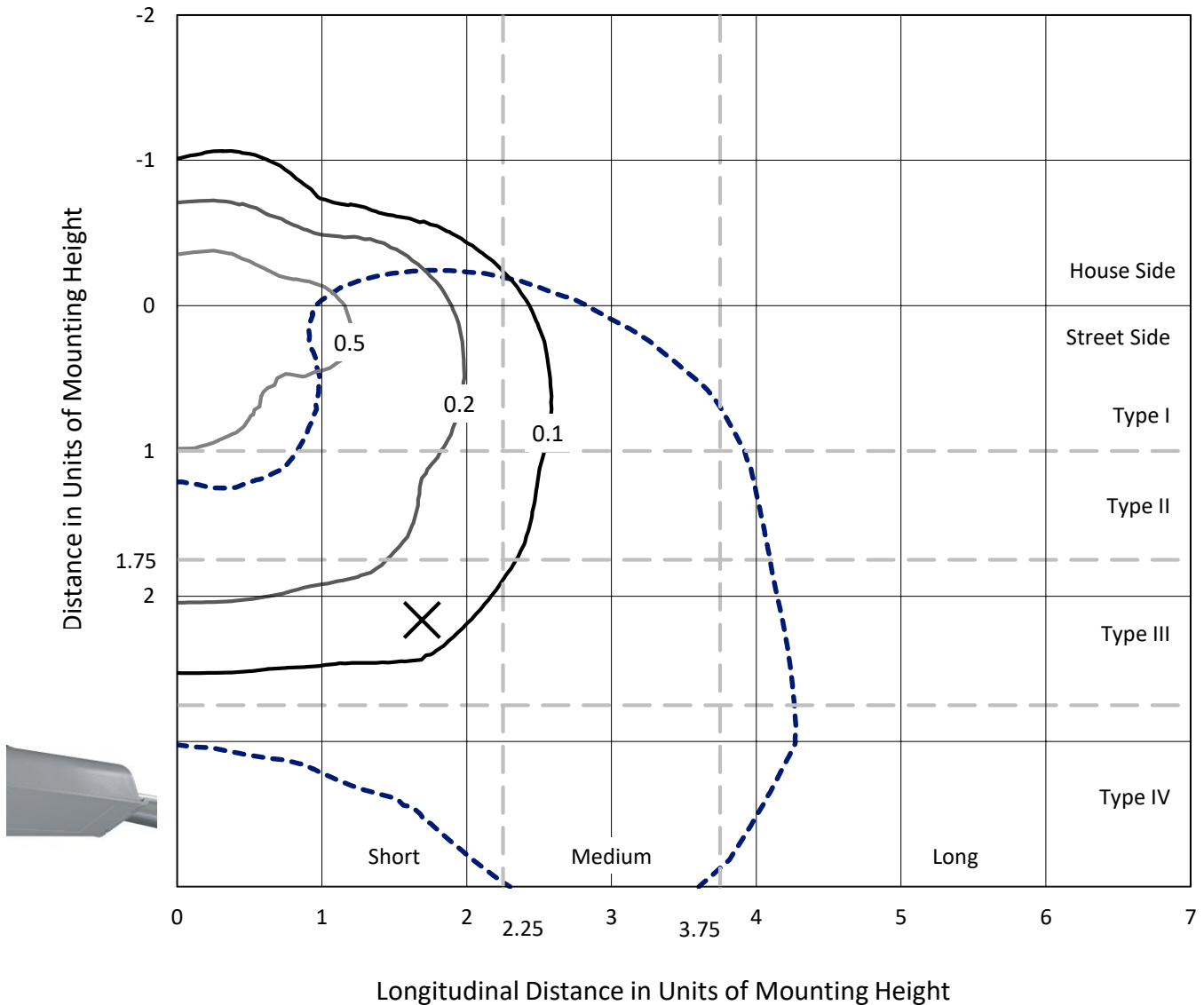
Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

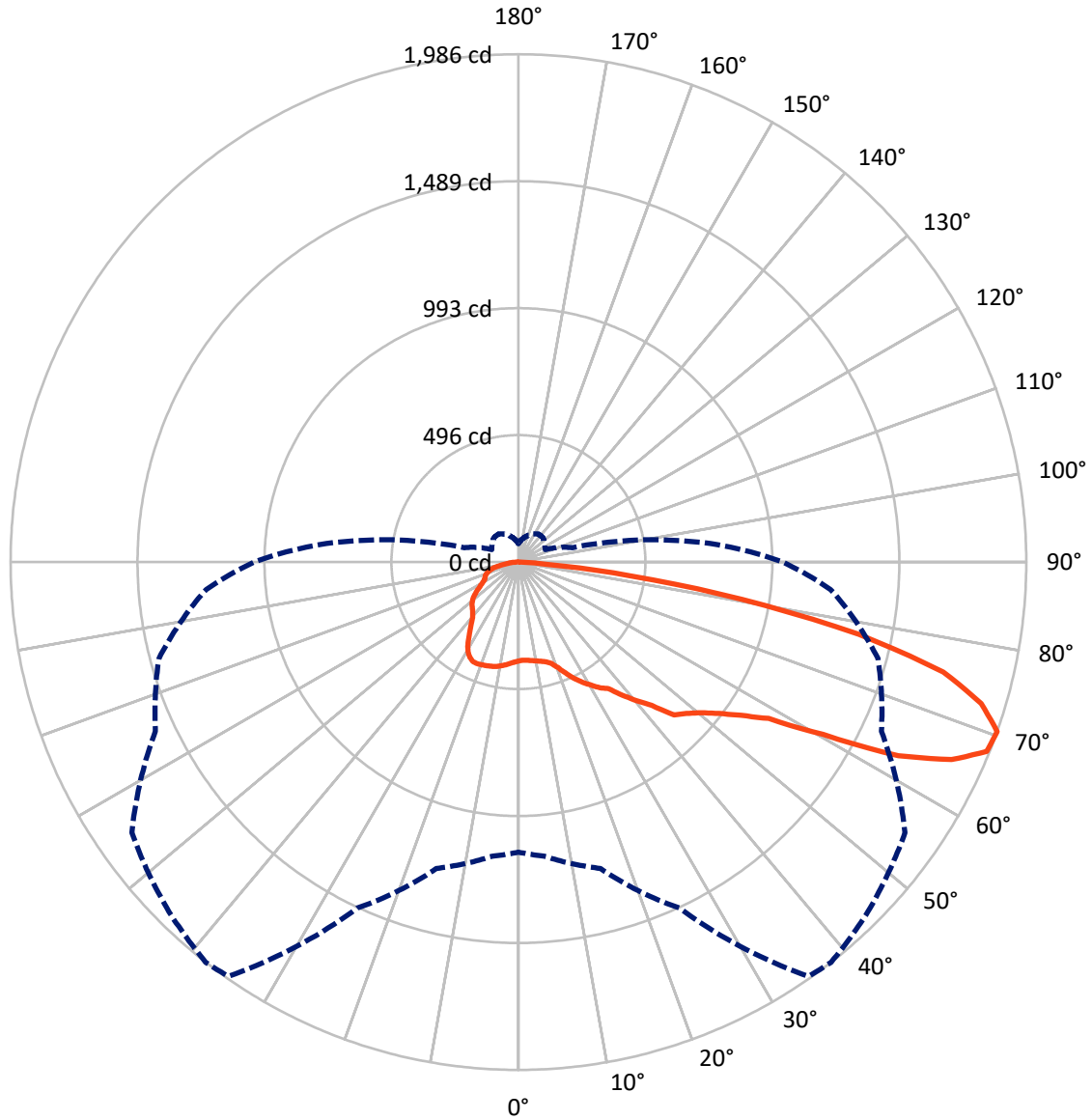
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 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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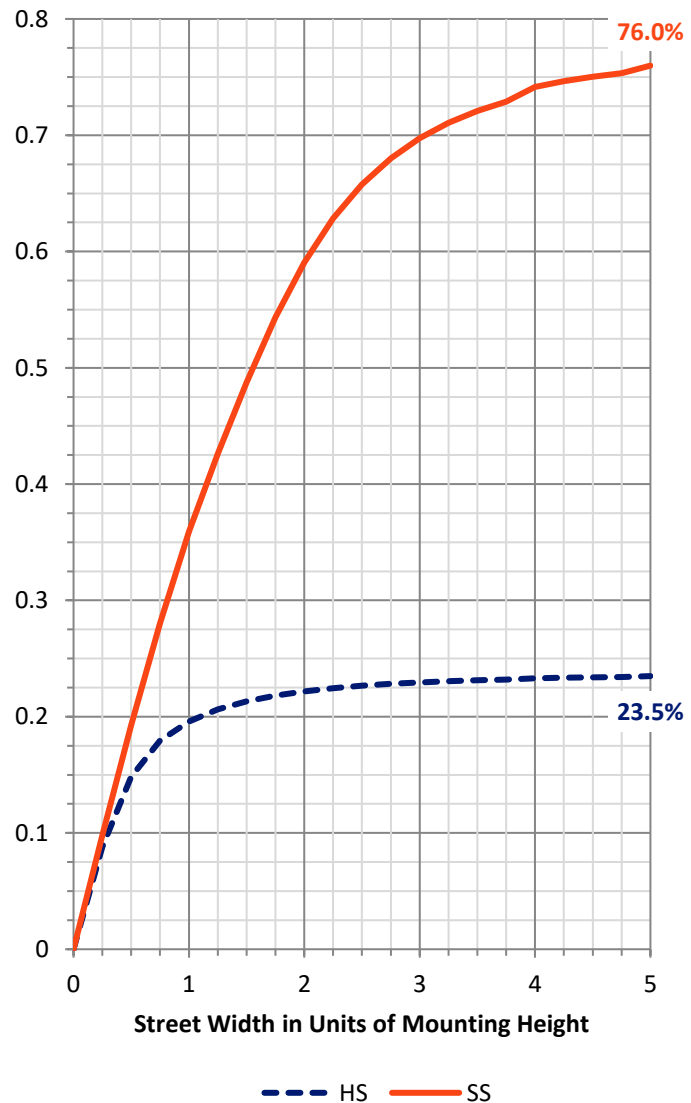
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	848.4	0.0	848.4
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	2723.6	0.0	2723.6
	% Fixture	76.2	0.0	76.2
Total	Lumens	3572.0	0.0	3572.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.6	1.1
10°-20°	118.6	3.3
20°-30°	220.0	6.2
30°-40°	340.7	9.5
40°-50°	504.8	14.1
50°-60°	703.4	19.7
60°-70°	903.3	25.3
70°-80°	660.9	18.5
80°-90°	82.8	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°	3572.0	100.0
0°-180°	3572.0	100.0



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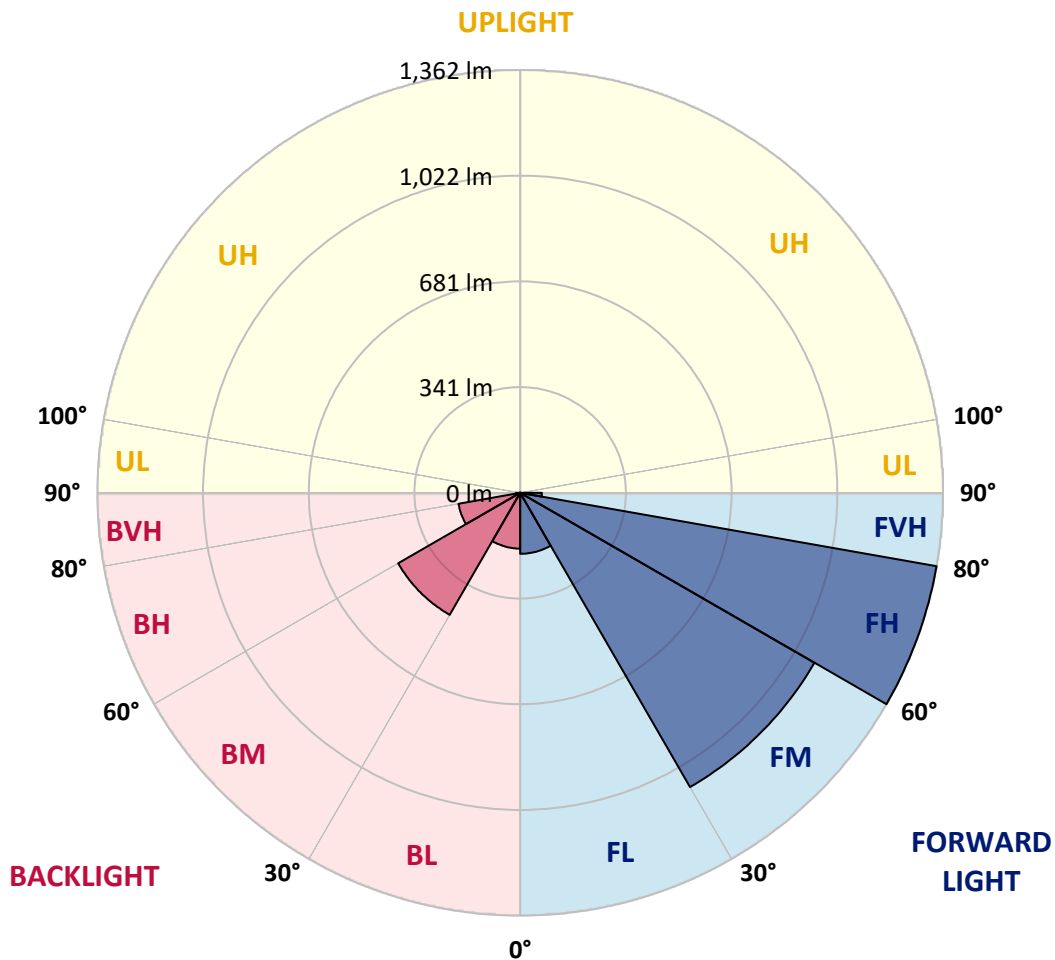
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	196.5	5.5			
FM	(30°-60°)	1094.7	30.6			
FH	(60°-80°)	1362.4	38.1			G1/1800
FVH	(80°-90°)	70.0	2.0			G1/100
BL	(0°-30°)	179.7	5.0	B1/500		
BM	(30°-60°)	454.1	12.7	B1/1000		
BH	(60°-80°)	201.7	5.6	B1/500		G1/500
BVH	(80°-90°)	12.8	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°	386.0	386.0	386.0	386.0	386.0	386.0	386.0	386.0	386.0	386.0	386.0
2.5°	385.0	385.0	385.0	383.9	383.9	383.9	382.9	382.9	383.9	385.0	385.0
5°	388.0	388.0	387.0	387.0	386.0	386.0	386.0	385.0	385.0	385.0	387.0
7.5°	389.0	389.0	389.0	389.0	389.0	389.0	390.0	389.0	389.0	389.0	391.1
10°	389.0	389.0	390.0	390.0	392.1	393.1	394.1	396.2	396.2	396.2	397.2
12.5°	391.1	391.1	392.1	393.1	396.2	398.2	400.2	403.3	404.3	404.3	405.3
15°	395.1	395.1	396.2	399.2	403.3	404.3	407.4	411.4	415.5	416.5	417.5
17.5°	411.4	411.4	411.4	411.4	415.5	416.5	420.6	426.7	430.8	432.8	435.9
20°	444.0	445.0	443.0	442.0	439.9	439.9	439.9	443.0	448.1	455.2	460.3
22.5°	485.8	485.8	485.8	477.6	472.5	471.5	471.5	470.5	474.6	481.7	488.8
25°	518.4	519.4	518.4	511.2	505.1	503.1	503.1	506.1	506.1	512.2	520.4
27.5°	544.8	546.9	543.8	537.7	532.6	531.6	532.6	541.8	546.9	550.9	561.1
30°	573.4	574.4	567.2	563.2	560.1	558.1	559.1	572.3	589.6	594.7	612.1
32.5°	626.3	626.3	616.1	592.7	584.6	585.6	585.6	602.9	626.3	649.7	672.1
35°	676.2	675.2	666.0	645.7	615.1	608.0	612.1	630.4	667.0	706.8	746.5
37.5°	735.3	733.2	725.1	696.6	671.1	659.9	637.5	662.0	706.8	785.2	825.9
40°	801.5	798.4	780.1	751.6	718.0	712.9	693.5	697.6	756.7	867.7	914.5
42.5°	838.1	836.1	823.9	800.5	776.0	765.8	749.5	744.4	823.9	974.6	998.0
45°	872.8	876.8	876.8	865.6	855.4	853.4	842.2	846.3	910.4	1062.2	1071.3
47.5°	894.1	898.2	885.0	882.9	882.9	884.0	895.2	922.7	988.9	1144.7	1135.5
50°	958.3	955.2	902.3	910.4	919.6	925.7	950.2	993.9	1097.8	1219.0	1191.5
52.5°	1074.4	1046.9	983.8	965.4	970.5	982.7	1015.3	1072.4	1208.8	1285.2	1240.4
55°	1218.0	1201.7	1144.7	1063.2	1036.7	1057.1	1091.7	1149.8	1294.4	1347.3	1279.1
57.5°	1314.7	1320.8	1328.0	1272.0	1148.7	1153.8	1177.3	1226.1	1379.9	1407.4	1309.6
60°	1412.5	1419.6	1459.3	1445.1	1416.6	1369.7	1284.2	1307.6	1444.1	1447.1	1332.0
62.5°	1489.9	1495.0	1554.1	1586.6	1661.0	1667.1	1533.7	1410.5	1511.3	1478.7	1341.2
65°	1451.2	1460.4	1549.0	1639.6	1844.3	1861.6	1817.8	1542.9	1563.2	1490.9	1334.1
67.5°	1320.8	1334.1	1427.8	1620.3	1961.4	1974.7	1931.9	1792.4	1581.6	1485.8	1299.5
70°	1134.5	1153.8	1240.4	1493.0	1977.7	1985.9	1932.9	1845.3	1566.3	1455.3	1225.1
72.5°	922.7	937.9	1025.5	1280.1	1878.9	1892.2	1875.9	1801.5	1533.7	1396.2	1075.4
75°	706.8	707.8	800.5	1003.1	1663.0	1716.0	1743.5	1717.0	1445.1	1228.2	827.9
77.5°	446.1	459.3	554.0	759.7	1306.6	1360.6	1372.8	1340.2	1011.3	753.6	356.4
80°	200.6	221.0	317.7	513.3	889.1	887.0	894.1	813.7	538.7	239.3	39.7
82.5°	72.3	76.4	133.4	257.7	430.8	442.0	436.9	375.8	145.6	33.6	24.4
85°	30.6	32.6	43.8	69.3	97.8	103.9	89.6	68.2	23.4	19.3	16.3
87.5°	2.0	2.0	2.0	2.0	2.0	3.1	3.1	3.1	3.1	4.1	5.1
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°	386.0	386.0	386.0	386.0	386.0	386.0	386.0	386.0	386.0	386.0	386.0
2.5°	385.0	386.0	387.0	389.0	389.0	390.0	391.1	392.1	392.1	392.1	392.1
5°	388.0	389.0	390.0	393.1	395.1	396.2	398.2	399.2	400.2	400.2	400.2
7.5°	392.1	393.1	395.1	398.2	401.2	403.3	405.3	406.3	407.4	407.4	407.4
10°	398.2	400.2	403.3	407.4	410.4	410.4	411.4	412.4	413.5	413.5	413.5
12.5°	406.3	408.4	413.5	418.6	419.6	418.6	416.5	416.5	415.5	414.5	414.5
15°	419.6	420.6	427.7	431.8	428.7	423.6	419.6	415.5	412.4	410.4	410.4
17.5°	437.9	441.0	448.1	448.1	439.9	430.8	420.6	410.4	402.3	399.2	398.2
20°	464.4	468.5	474.6	468.5	455.2	438.9	420.6	404.3	388.0	377.8	374.8
22.5°	493.9	499.0	501.0	487.8	468.5	446.1	421.6	396.2	369.7	347.3	341.2
25°	528.5	531.6	524.5	503.1	476.6	448.1	418.6	385.0	344.2	314.7	311.6
27.5°	569.3	566.2	546.9	514.3	478.6	444.0	407.4	362.5	311.6	289.2	286.2
30°	613.1	601.9	566.2	520.4	472.5	431.8	388.0	328.9	287.2	268.9	266.8
32.5°	665.0	642.6	584.6	521.4	461.3	410.4	356.4	301.4	270.9	250.5	248.5
35°	723.1	688.4	600.8	515.3	438.9	380.9	318.8	281.1	253.6	234.2	230.2
37.5°	801.5	750.6	621.2	502.1	410.4	343.2	291.3	259.7	236.3	214.9	211.8
40°	881.9	821.8	649.7	486.8	378.8	312.6	267.8	244.4	224.0	199.6	194.5
42.5°	962.4	893.1	688.4	468.5	347.3	289.2	257.7	242.4	217.9	192.5	187.4
45°	1028.6	954.2	725.1	447.1	315.7	267.8	251.5	238.3	213.9	186.4	180.3
47.5°	1085.6	1005.1	756.7	427.7	285.1	251.5	246.4	231.2	207.8	180.3	174.1
50°	1133.5	1045.9	782.1	411.4	259.7	240.3	236.3	217.9	193.5	170.1	166.0
52.5°	1175.2	1075.4	793.3	406.3	234.2	227.1	220.0	201.6	179.2	157.8	151.7
55°	1202.7	1097.8	791.3	406.3	209.8	208.8	200.6	186.4	170.1	152.8	146.6
57.5°	1224.1	1108.0	776.0	347.3	189.4	185.3	180.3	174.1	164.0	144.6	138.5
60°	1234.3	1101.9	743.4	252.6	169.1	161.9	166.0	164.0	153.8	127.3	123.2
62.5°	1228.2	1083.6	670.1	184.3	147.7	146.6	152.8	148.7	129.3	105.9	103.9
65°	1204.8	1037.7	576.4	138.5	135.4	142.6	145.6	137.5	119.2	97.8	89.6
67.5°	1144.7	949.1	419.6	124.2	131.4	139.5	141.6	130.4	112.0	91.7	81.5
70°	1033.7	782.1	217.9	115.1	125.3	135.4	134.4	120.2	101.8	83.5	71.3
72.5°	838.1	555.0	82.5	102.9	116.1	126.3	124.2	107.9	72.3	51.9	46.8
75°	543.8	265.8	71.3	88.6	103.9	113.0	114.1	97.8	63.1	43.8	37.7
77.5°	186.4	48.9	58.0	73.3	89.6	101.8	98.8	78.4	48.9	32.6	29.5
80°	31.6	32.6	44.8	51.9	62.1	81.5	69.3	56.0	38.7	23.4	19.3
82.5°	22.4	27.5	31.6	30.6	42.8	54.0	46.8	37.7	25.5	18.3	16.3
85°	16.3	18.3	17.3	18.3	24.4	35.6	32.6	26.5	18.3	13.2	11.2
87.5°	6.1	6.1	8.1	10.2	15.3	22.4	19.3	8.1	7.1	6.1	6.1
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)