

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: P507441

Luminaire Tested: **VERD-S-CA1-20-730-U-T2**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507441
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-20-730-U-T2
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 430mA LED AND TYPE II OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3485 lumens
Efficiency: N/A
Efficacy: 148.9 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

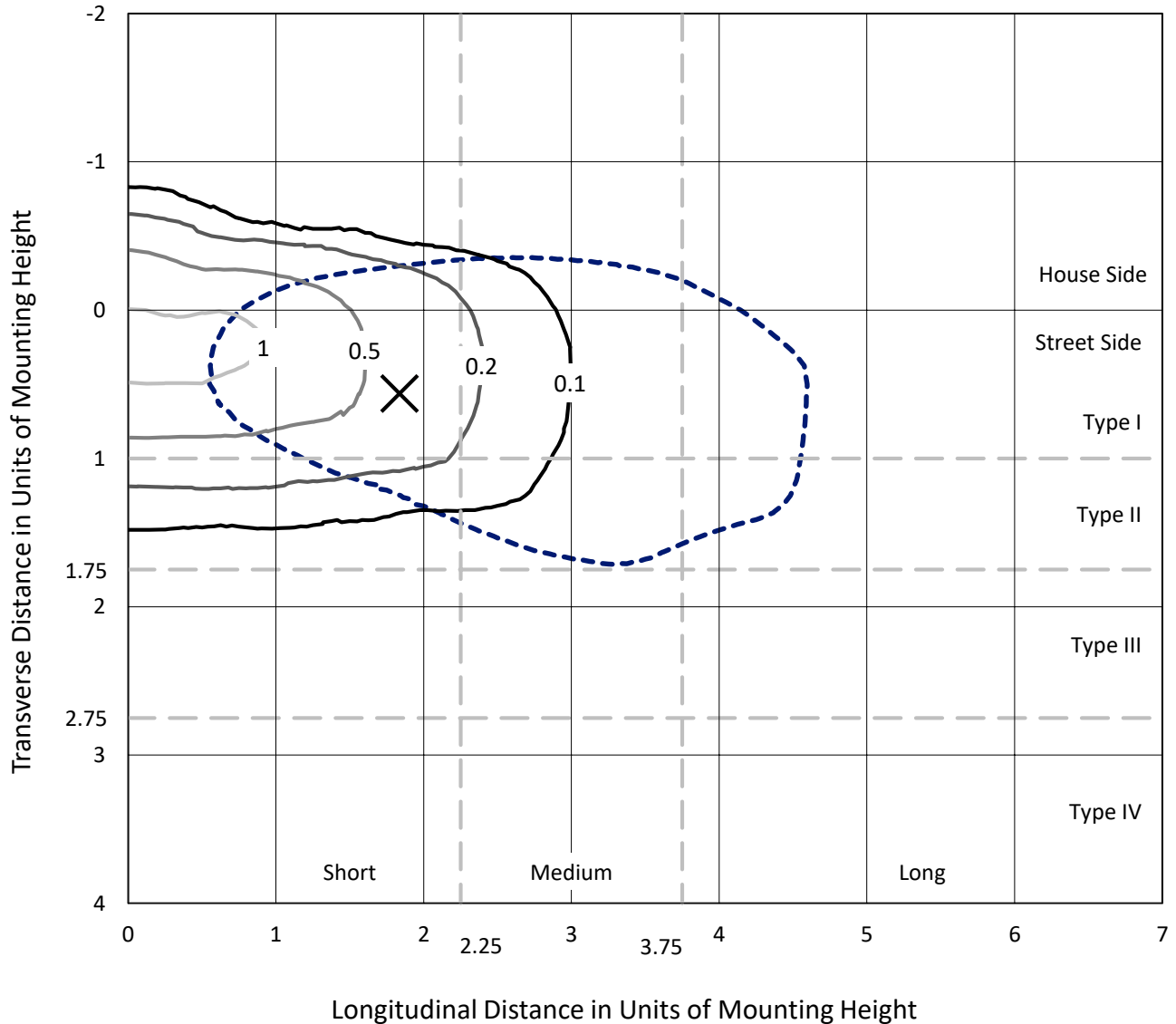
Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P507441
 CATALOG NUMBER: VERD-S-CA1-20-730-U-T2

Iso-Footcandle Lines of Horizontal Illumination

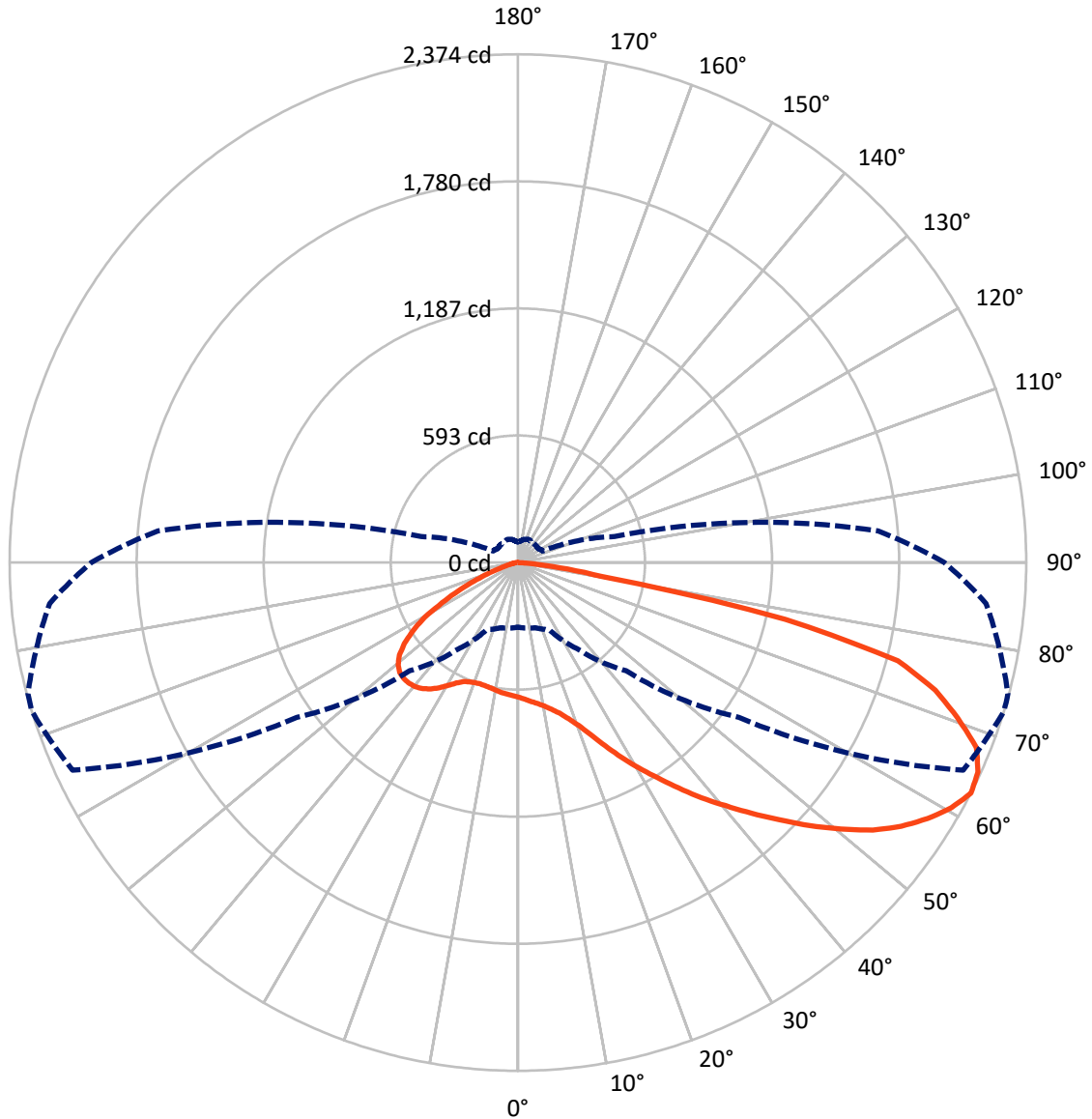
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P507441
CATALOG NUMBER: VERD-S-CA1-20-730-U-T2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P507441

CATALOG NUMBER: VERD-S-CA1-20-730-U-T2

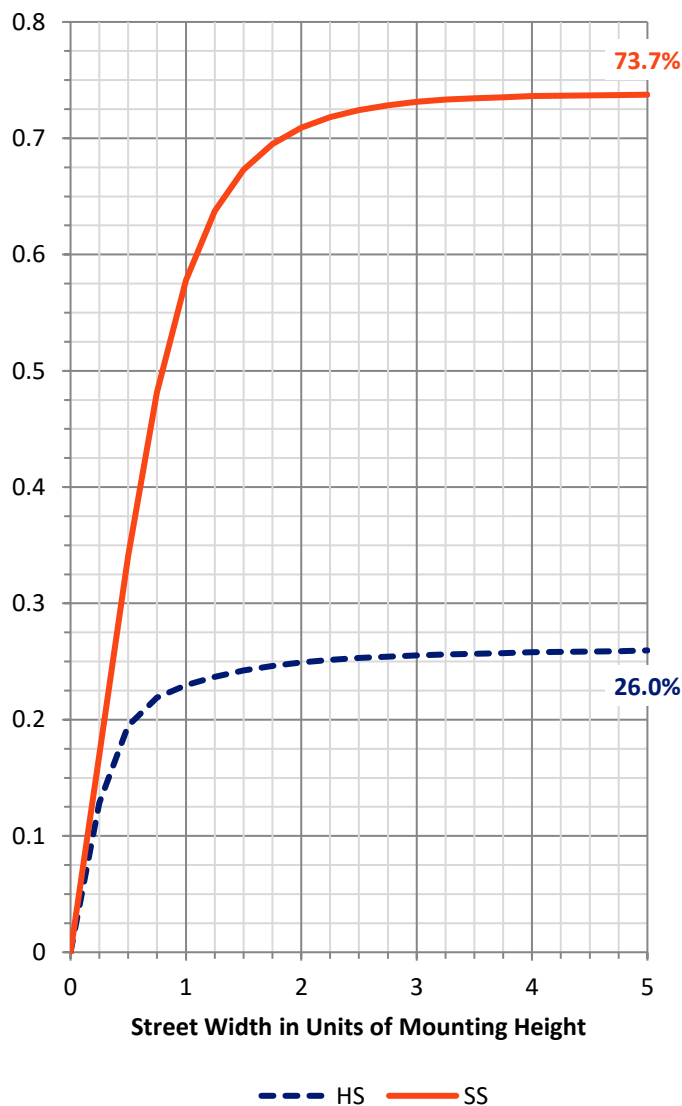
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	918.0	0.0	918.0
	% Fixture	26.3	0.0	26.3
Street Side	Lumens	2567.0	0.0	2567.0
	% Fixture	73.7	0.0	73.7
Total	Lumens	3485.0	0.0	3485.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.8	1.7
10°-20°	186.0	5.3
20°-30°	321.9	9.2
30°-40°	466.2	13.4
40°-50°	597.1	17.1
50°-60°	691.3	19.8
60°-70°	696.1	20.0
70°-80°	425.6	12.2
80°-90°	40.1	1.1
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°	3485.0	100.0
0°-180°	3485.0	100.0

Coefficient of Utilization



REPORT NUMBER: P507441

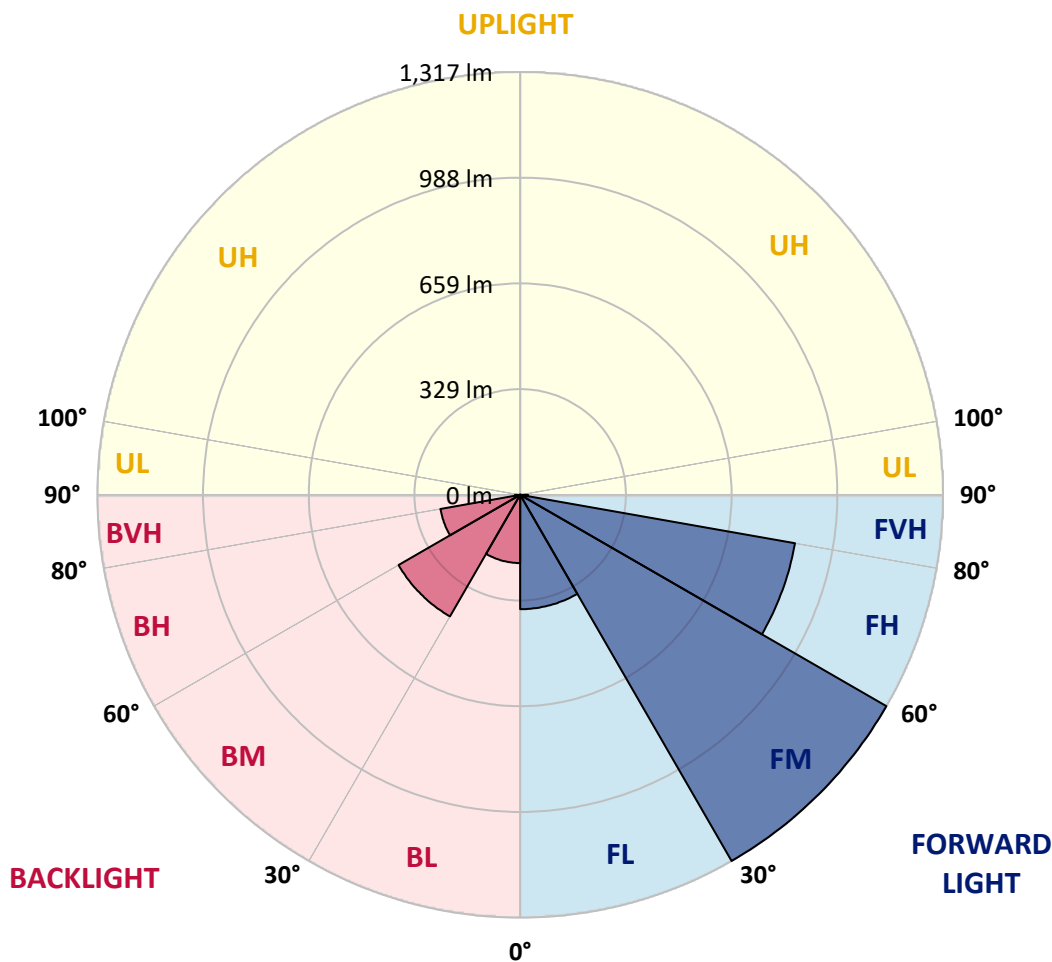
CATALOG NUMBER: VERD-S-CA1-20-730-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	356.2	10.2			
FM	(30°-60°)	1317.2	37.8			
FH	(60°-80°)	869.4	24.9			G1/1800
FVH	(80°-90°)	24.2	0.7			G1/100
BL	(0°-30°)	212.5	6.1	B1/500		
BM	(30°-60°)	437.3	12.5	B1/1000		
BH	(60°-80°)	252.3	7.2	B1/500		G1/500
BVH	(80°-90°)	15.9	0.5			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 II Short





REPORT NUMBER: P507441

CATALOG NUMBER: VERD-S-CA1-20-730-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5
2.5°	661.9	660.9	659.0	658.0	656.0	651.1	648.2	643.2	639.3	638.3	632.4
5°	694.3	695.3	694.3	691.4	687.4	680.6	670.7	658.0	652.1	650.1	640.3
7.5°	724.7	724.7	723.8	719.8	715.9	707.1	693.3	678.6	664.8	660.9	648.2
10°	754.2	754.2	751.3	747.3	741.4	730.6	716.9	698.2	681.5	675.6	654.0
12.5°	785.6	784.7	780.7	774.8	767.0	758.1	743.4	722.8	704.1	697.3	666.8
15°	810.2	810.2	807.2	803.3	796.4	785.6	771.9	754.2	729.7	723.8	684.5
17.5°	831.8	832.8	830.8	830.8	824.9	817.1	805.3	790.5	767.0	758.1	711.0
20°	849.5	848.5	852.4	855.4	857.3	852.4	845.5	835.7	812.2	803.3	745.4
22.5°	857.3	859.3	871.1	885.8	894.6	895.6	894.6	893.7	873.0	861.3	792.5
25°	861.3	864.2	881.9	907.4	927.1	941.8	957.5	967.3	948.7	939.8	863.2
27.5°	865.2	868.1	888.8	920.2	957.5	992.8	1024.3	1042.9	1029.2	1018.4	935.9
30°	858.3	861.3	884.8	929.0	982.0	1043.9	1088.1	1114.6	1112.7	1105.8	1019.4
32.5°	843.6	846.5	873.0	928.0	1007.6	1096.0	1145.1	1189.3	1198.1	1191.2	1102.8
35°	817.1	821.0	851.4	916.2	1019.4	1139.2	1205.0	1269.8	1292.4	1293.4	1194.2
37.5°	780.7	782.7	820.0	893.7	1023.3	1169.6	1255.1	1347.4	1393.5	1394.5	1287.5
40°	731.6	736.5	782.7	865.2	1014.5	1191.2	1305.1	1431.8	1492.7	1485.8	1388.6
42.5°	675.6	679.6	724.7	820.0	993.8	1204.0	1351.3	1520.2	1600.7	1596.8	1483.9
45°	625.6	631.5	665.8	757.2	954.5	1206.9	1391.6	1608.6	1712.7	1707.8	1581.1
47.5°	558.8	573.5	619.7	701.2	895.6	1194.2	1427.9	1728.4	1836.4	1829.6	1683.2
50°	430.1	435.0	532.3	654.0	828.8	1162.7	1459.3	1839.4	1956.2	1951.3	1790.3
52.5°	387.9	391.8	423.3	600.0	762.1	1106.8	1478.0	1981.8	2076.0	2062.3	1886.5
55°	364.3	368.3	385.9	479.2	704.1	1022.3	1481.9	2102.6	2173.3	2160.5	1976.9
57.5°	342.7	345.7	362.4	410.5	637.3	905.4	1461.3	2199.8	2255.8	2243.0	2058.4
60°	320.1	323.1	340.8	373.2	554.9	798.4	1393.5	2275.4	2325.5	2312.7	2132.0
62.5°	301.5	306.4	315.2	345.7	495.9	714.9	1260.9	2294.1	2373.6	2368.7	2194.9
65°	278.9	280.9	294.6	319.2	438.0	657.0	1118.5	2240.0	2360.8	2369.7	2232.2
67.5°	253.4	254.3	267.1	284.8	366.3	600.0	991.9	2167.4	2309.8	2324.5	2204.7
70°	219.0	220.0	231.8	250.4	303.5	520.5	861.3	2060.3	2179.2	2192.9	2098.6
72.5°	182.7	182.7	192.5	213.1	250.4	431.1	689.4	1825.6	2038.7	2061.3	1925.8
75°	79.5	82.5	99.2	118.8	162.0	317.2	470.4	1413.2	1832.5	1848.2	1688.1
77.5°	21.6	21.6	25.5	33.4	47.1	141.4	149.3	621.6	1276.7	1316.9	1248.2
80°	17.7	17.7	19.6	25.5	32.4	69.7	50.1	200.3	394.8	520.5	647.2
82.5°	9.8	9.8	11.8	14.7	17.7	17.7	17.7	102.1	194.4	207.2	271.0
85°	4.9	5.9	5.9	6.9	6.9	5.9	5.9	20.6	37.3	42.2	64.8
87.5°	2.0	2.0	2.0	2.0	1.0	1.0	2.0	2.9	2.9	3.9	4.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P507441

CATALOG NUMBER: VERD-S-CA1-20-730-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5
2.5°	630.5	627.5	623.6	620.7	614.8	608.9	604.9	602.0	601.0	600.0	600.0
5°	634.4	629.5	618.7	607.9	599.0	591.2	584.3	579.4	577.4	576.5	576.5
7.5°	640.3	633.4	615.7	600.0	584.3	572.5	561.7	554.9	550.9	551.9	554.9
10°	643.2	632.4	608.9	593.2	572.5	553.9	541.1	533.3	530.3	530.3	529.3
12.5°	651.1	635.4	604.0	579.4	561.7	536.2	521.5	514.6	510.7	504.8	502.8
15°	662.9	643.2	602.0	569.6	542.1	519.5	499.9	490.0	487.1	479.2	479.2
17.5°	684.5	657.0	602.0	558.8	523.4	501.8	476.3	462.5	460.6	455.7	454.7
20°	710.0	675.6	606.9	548.0	503.8	475.3	446.8	433.1	428.2	423.3	423.3
22.5°	750.3	704.1	615.7	540.1	483.2	447.8	416.4	396.7	388.9	387.9	385.9
25°	812.2	749.3	629.5	532.3	462.5	417.4	385.9	360.4	347.6	345.7	344.7
27.5°	879.9	811.2	657.0	525.4	440.0	383.0	345.7	318.2	302.5	300.5	299.5
30°	952.6	875.0	693.3	519.5	411.5	343.7	301.5	275.0	260.2	256.3	257.3
32.5°	1032.1	943.7	732.6	514.6	381.0	292.6	253.4	235.7	220.0	213.1	214.1
35°	1109.7	1004.6	767.0	510.7	340.8	246.5	216.1	197.4	181.7	172.8	172.8
37.5°	1197.1	1076.3	795.5	502.8	297.6	215.1	185.6	166.9	155.2	147.3	147.3
40°	1282.6	1148.0	818.0	488.1	249.4	189.5	153.2	142.4	134.5	129.6	127.7
42.5°	1366.0	1219.7	832.8	463.5	209.2	159.1	127.7	126.7	127.7	122.8	121.8
45°	1452.4	1290.4	843.6	424.2	180.7	131.6	113.9	120.8	127.7	125.7	125.7
47.5°	1546.7	1359.2	852.4	360.4	153.2	115.9	112.9	119.8	128.6	129.6	129.6
50°	1637.1	1428.9	849.5	278.9	134.5	114.9	113.9	115.9	127.7	130.6	128.6
52.5°	1721.5	1488.8	825.9	203.3	125.7	116.9	116.9	114.9	124.7	126.7	127.7
55°	1807.0	1544.8	772.9	161.1	120.8	116.9	121.8	116.9	119.8	120.8	122.8
57.5°	1884.5	1601.7	694.3	144.4	119.8	116.9	121.8	118.8	118.8	114.9	113.9
60°	1944.5	1648.9	599.0	137.5	116.9	117.8	119.8	119.8	116.9	108.0	105.1
62.5°	1991.6	1688.1	468.4	128.6	114.9	115.9	114.9	118.8	112.0	99.2	96.2
65°	2018.1	1695.0	358.4	118.8	110.0	113.9	111.0	110.0	104.1	90.3	84.5
67.5°	1988.6	1646.9	250.4	109.0	104.1	111.0	106.1	102.1	95.3	82.5	74.6
70°	1874.7	1507.4	165.0	96.2	96.2	104.1	100.2	94.3	85.4	75.6	66.8
72.5°	1660.6	1299.2	99.2	79.5	85.4	95.3	93.3	85.4	59.9	46.2	40.3
75°	1404.3	1067.5	63.8	59.9	69.7	85.4	86.4	76.6	51.1	41.2	41.2
77.5°	1020.3	701.2	37.3	33.4	46.2	68.7	73.7	56.0	55.0	76.6	56.0
80°	523.4	339.8	28.5	20.6	24.6	51.1	41.2	42.2	83.5	61.9	39.3
82.5°	226.9	134.5	17.7	14.7	15.7	25.5	26.5	69.7	64.8	36.3	24.6
85°	48.1	25.5	9.8	9.8	9.8	11.8	14.7	75.6	40.3	18.7	7.9
87.5°	4.9	4.9	4.9	4.9	4.9	4.9	3.9	3.9	3.9	2.9	2.9
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)