

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: P507424

Luminaire Tested: **VERD-S-CA1-20-722-U-T2-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507424
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-CA1-20-722-U-T2-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 430mA LED AND TYPE II OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2669 lumens
Efficiency: N/A
Efficacy: 114.1 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

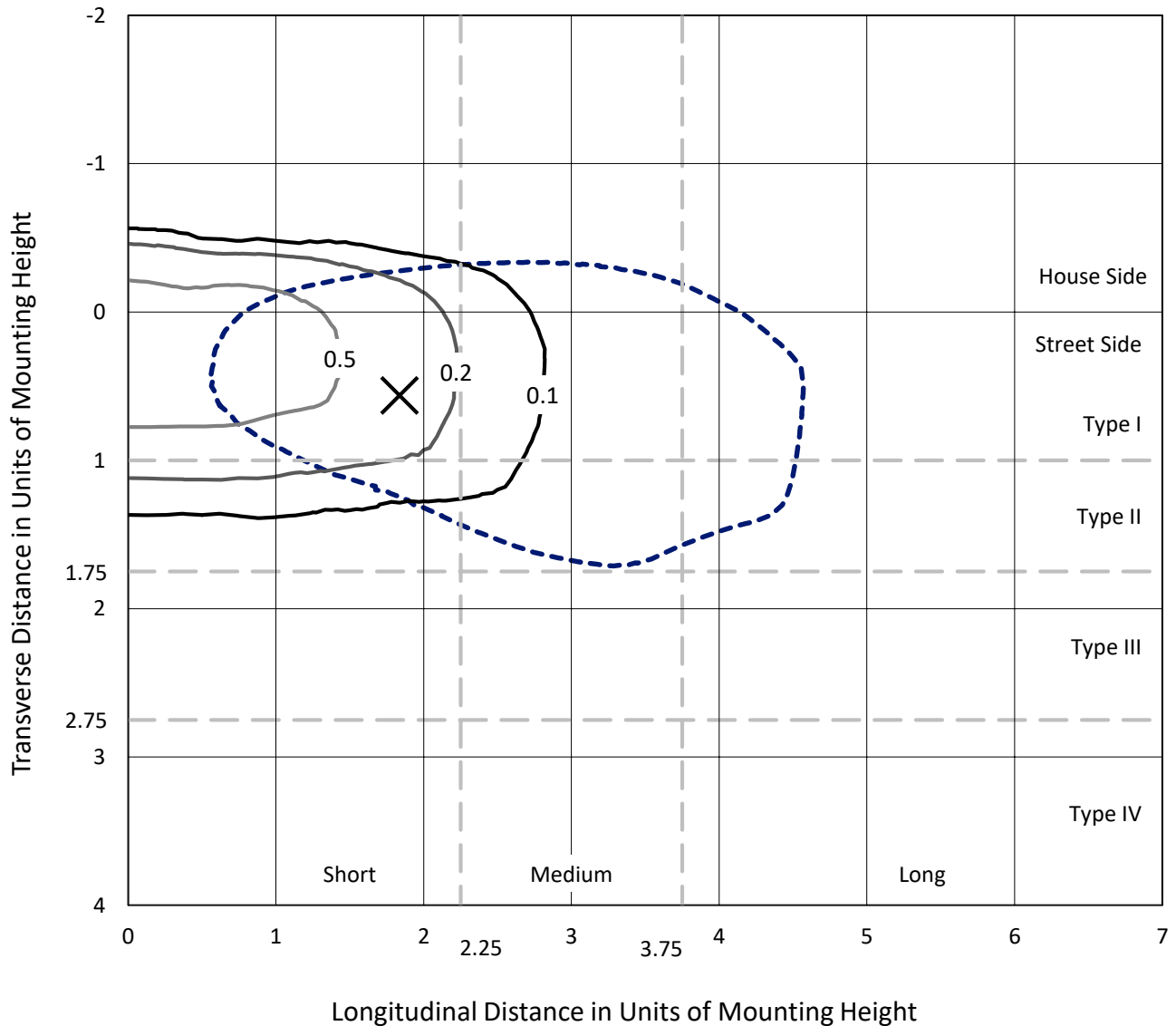


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Iso-Footcandle Lines of Horizontal Illumination

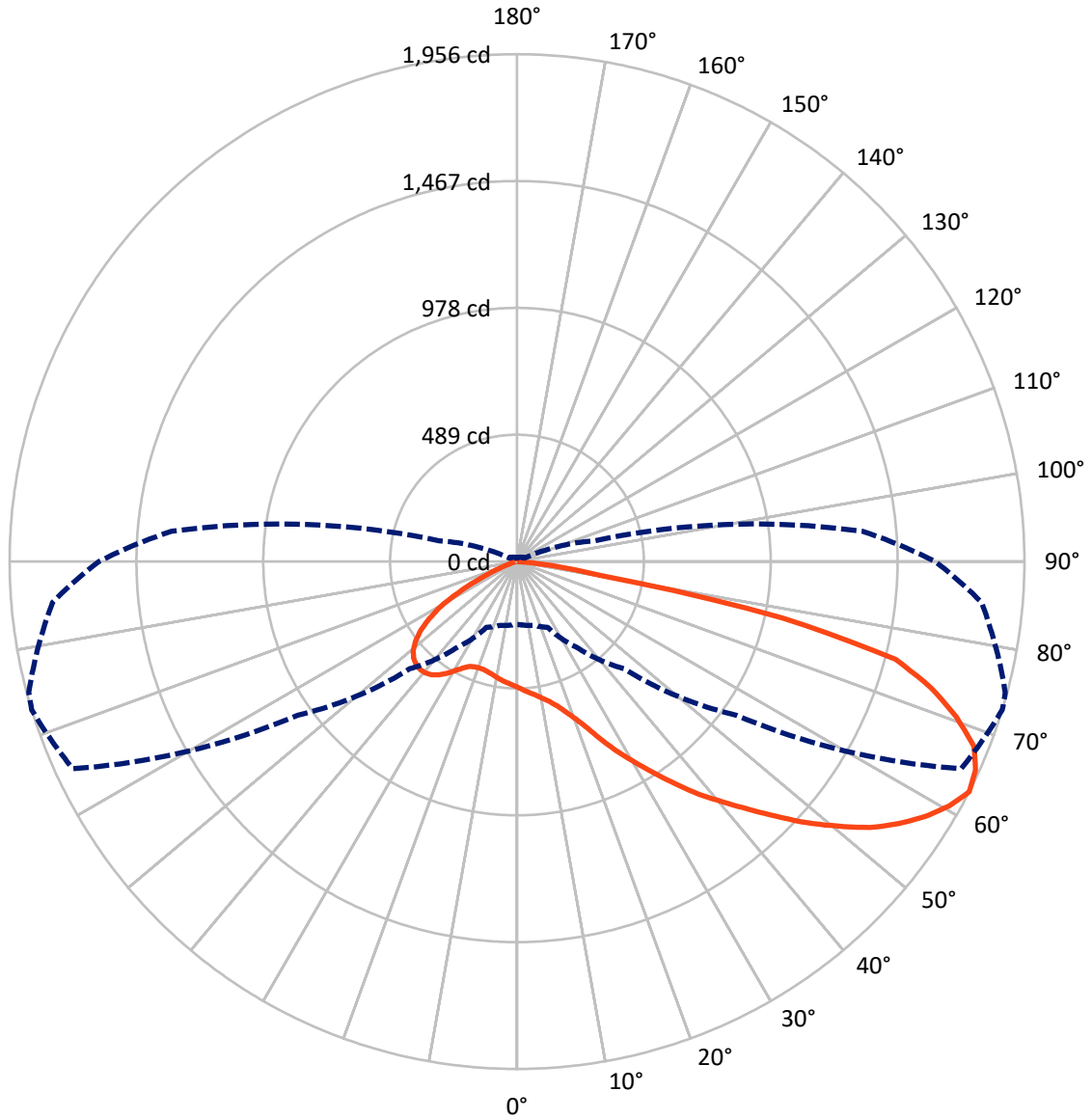
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 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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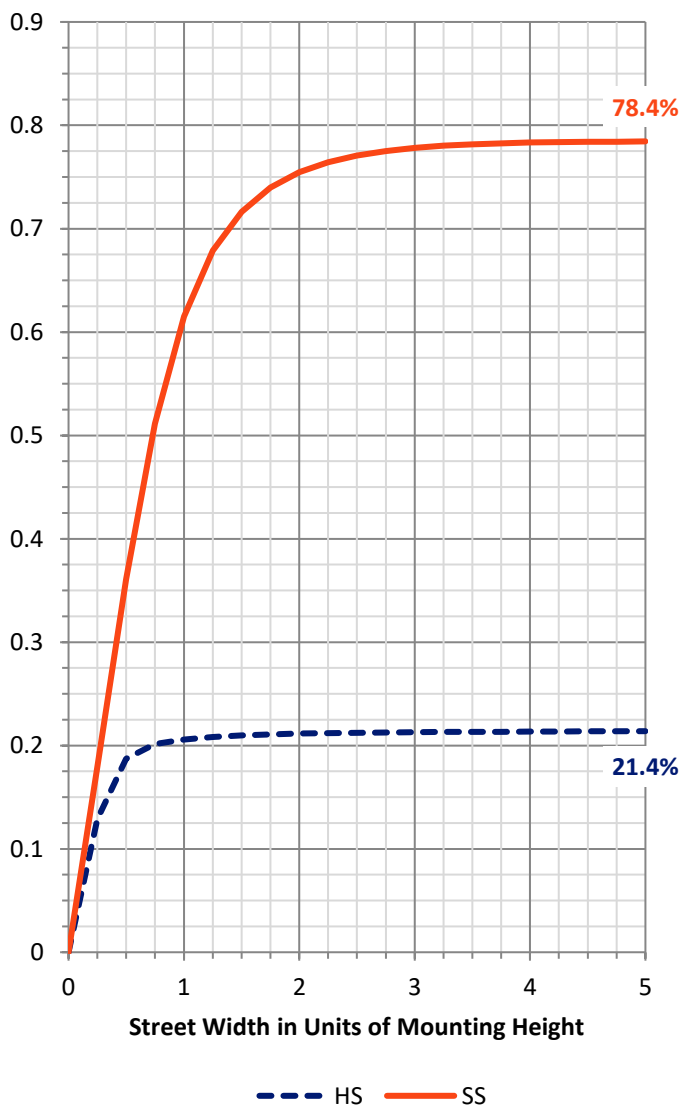
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	578.1	0.0	578.1
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	2090.9	0.0	2090.9
	% Fixture	78.3	0.0	78.3
Total	Lumens	2669.0	0.0	2669.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.4	1.7
10°-20°	139.6	5.2
20°-30°	241.4	9.0
30°-40°	354.6	13.3
40°-50°	460.9	17.3
50°-60°	534.4	20.0
60°-70°	537.8	20.2
70°-80°	327.7	12.3
80°-90°	26.1	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°	2669.0	100.0
0°-180°	2669.0	100.0

Coefficient of Utilization



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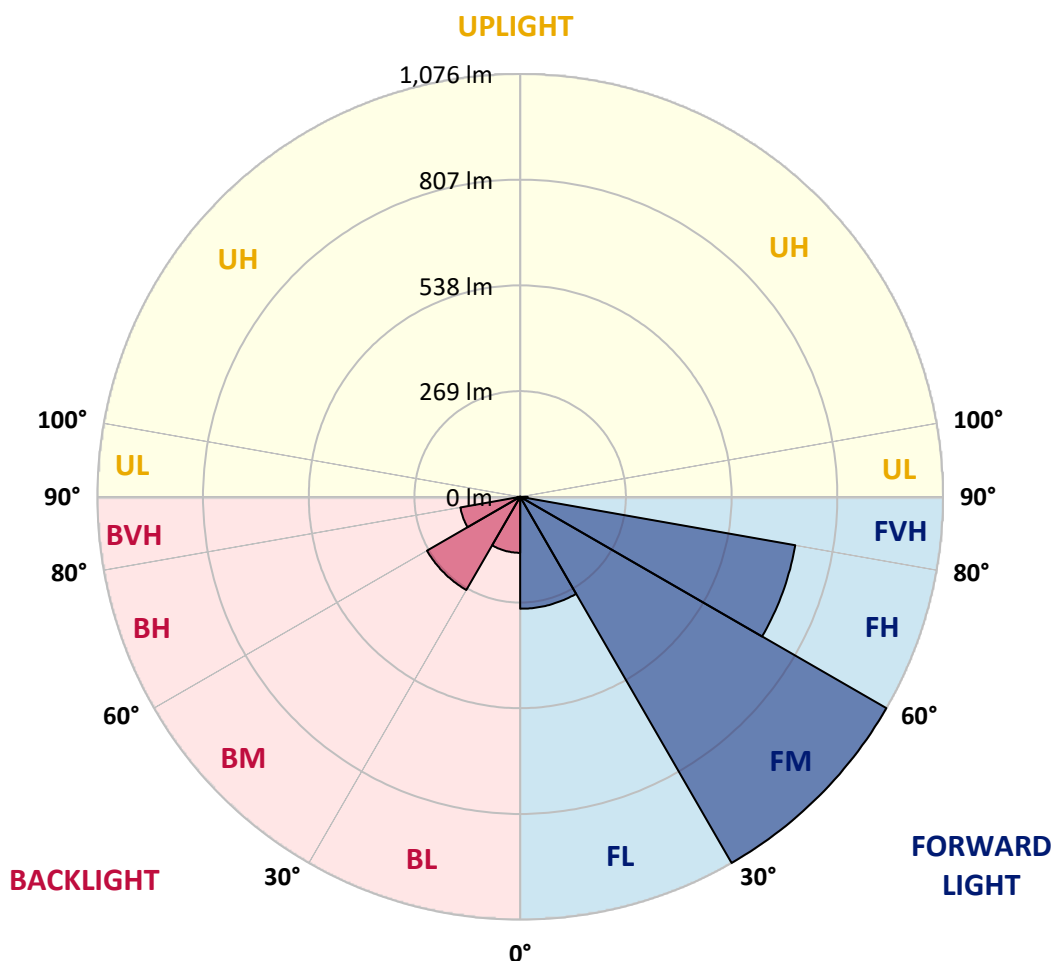
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	284.9	10.7			
FM	(30°-60°)	1076.1	40.3			
FH	(60°-80°)	711.0	26.6			G1/1800
FVH	(80°-90°)	19.0	0.7			G1/100
BL	(0°-30°)	142.5	5.3	B1/500		
BM	(30°-60°)	273.8	10.3	B1/1000		
BH	(60°-30°)	154.6	5.8	B1/500		G1/500
BVH	(80°-90°)	7.1	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°	484.8	484.8	484.8	484.8	484.8	484.8	484.8	484.8	484.8	484.8	484.8
2.5°	517.4	517.4	516.6	515.8	512.6	509.3	504.4	500.3	496.3	494.6	488.1
5°	547.6	547.6	546.8	543.5	539.4	533.7	525.6	515.0	507.7	506.8	495.4
7.5°	572.9	572.0	571.2	569.6	565.5	558.2	546.0	532.1	519.9	516.6	502.8
10°	597.3	598.1	596.5	592.4	587.5	578.6	566.3	550.0	535.4	530.5	509.3
12.5°	623.4	622.6	620.1	615.2	608.7	601.4	588.3	572.0	552.5	547.6	519.9
15°	645.4	646.2	642.1	638.9	632.3	624.2	612.8	596.5	576.9	571.2	535.4
17.5°	664.9	664.9	664.1	662.5	657.6	651.9	640.5	629.1	608.7	599.7	559.0
20°	679.6	680.4	682.0	685.3	686.1	681.2	675.5	667.4	647.8	638.9	588.3
22.5°	692.6	694.3	700.8	710.6	718.7	718.7	717.9	717.1	697.5	691.8	631.5
25°	695.9	698.3	713.0	734.2	747.2	757.8	772.5	778.2	763.5	753.8	687.7
27.5°	700.8	703.2	719.5	744.8	777.4	801.0	827.1	841.8	831.2	821.4	752.1
30°	696.7	700.0	717.9	753.8	796.9	846.6	879.2	901.2	898.0	892.3	818.9
32.5°	686.1	689.4	710.6	754.6	820.6	893.1	929.8	964.0	973.0	968.1	889.0
35°	664.9	668.2	694.3	748.0	832.0	928.1	980.3	1030.8	1051.2	1047.9	965.6
37.5°	638.0	638.0	669.0	728.5	836.1	955.0	1025.1	1097.6	1137.6	1132.7	1043.0
40°	593.2	601.4	639.7	707.3	829.5	974.6	1068.3	1166.9	1216.6	1214.2	1127.0
42.5°	548.4	554.9	591.6	670.6	814.1	986.0	1104.1	1239.4	1303.8	1302.2	1207.6
45°	508.5	513.4	543.5	620.1	781.5	989.2	1138.4	1316.8	1399.9	1396.7	1289.9
47.5°	457.1	466.9	505.2	572.9	736.6	979.5	1170.1	1413.8	1504.2	1501.0	1378.8
50°	346.3	352.8	432.7	534.6	678.8	955.0	1196.2	1509.1	1602.8	1596.3	1459.4
52.5°	314.5	318.6	343.9	487.3	625.0	911.0	1212.5	1623.2	1703.1	1692.5	1542.5
55°	294.2	297.4	312.1	390.3	577.7	836.9	1217.4	1730.8	1783.7	1773.2	1619.1
57.5°	276.2	277.9	292.5	332.5	521.5	743.2	1200.3	1810.6	1854.6	1843.2	1685.1
60°	257.5	259.9	273.8	303.1	453.9	656.8	1147.3	1874.2	1913.3	1903.5	1743.0
62.5°	242.0	245.3	254.2	279.5	405.0	583.4	1031.6	1888.9	1955.7	1948.3	1796.8
65°	223.3	225.7	237.1	258.3	354.5	537.8	914.3	1845.7	1941.8	1950.8	1826.9
67.5°	201.3	203.7	213.5	229.8	297.4	489.7	811.6	1784.6	1899.5	1911.7	1804.9
70°	174.4	176.0	185.8	201.3	246.9	427.0	704.0	1694.9	1796.8	1805.7	1717.7
72.5°	145.0	145.0	152.4	170.3	202.9	353.7	564.7	1505.9	1671.3	1693.3	1570.2
75°	61.1	64.4	77.4	93.7	129.6	258.3	386.2	1159.6	1507.5	1526.2	1386.9
77.5°	12.2	13.0	14.7	22.0	34.2	112.5	119.8	506.0	1046.3	1058.5	1012.9
80°	9.8	9.8	10.6	16.3	22.8	52.2	39.1	165.4	325.9	419.7	541.1
82.5°	3.3	4.1	5.7	9.0	11.4	11.4	13.0	83.1	161.3	173.6	218.4
85°	1.6	1.6	2.4	3.3	3.3	3.3	3.3	14.7	27.7	33.4	46.4
87.5°	0.8	0.0	0.0	0.0	0.0	0.0	0.8	1.6	2.4	2.4	3.3
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°	484.8	484.8	484.8	484.8	484.8	484.8	484.8	484.8	484.8	484.8	484.8
2.5°	484.8	482.4	476.7	472.6	466.9	462.0	456.3	453.1	451.4	450.6	449.0
5°	488.9	482.4	471.0	458.8	448.2	440.0	428.6	422.9	419.7	418.0	417.2
7.5°	493.8	485.7	466.1	447.4	428.6	414.8	400.9	392.0	387.9	387.1	386.2
10°	497.1	484.0	458.0	437.6	413.1	391.1	374.8	364.2	358.5	357.7	356.9
12.5°	503.6	486.5	451.4	422.1	396.8	368.3	351.2	339.0	333.3	328.4	328.4
15°	514.2	492.2	448.2	409.1	375.7	347.9	325.9	312.9	308.8	302.3	300.7
17.5°	532.1	502.8	445.7	396.0	356.1	328.4	302.3	288.5	286.0	280.3	277.1
20°	554.1	518.3	447.4	383.8	335.7	303.9	277.9	264.0	255.9	251.0	249.3
22.5°	589.1	541.1	453.1	374.8	317.8	281.9	254.2	232.2	214.3	207.8	207.8
25°	638.9	580.2	462.8	367.5	299.9	260.8	226.5	189.0	165.4	156.5	154.0
27.5°	695.1	629.9	485.7	361.0	285.2	237.1	186.6	145.0	119.8	111.6	111.6
30°	759.5	682.0	513.4	356.9	267.3	201.3	141.0	105.9	85.6	76.6	75.8
32.5°	823.0	735.8	546.0	353.7	248.5	157.3	101.9	77.4	60.3	53.8	54.6
35°	886.6	788.8	573.7	353.7	217.6	113.3	72.5	53.8	43.2	39.9	39.9
37.5°	958.3	848.3	595.7	348.8	171.1	80.7	49.7	39.1	35.9	34.2	34.2
40°	1032.4	903.7	610.3	338.2	122.2	55.4	35.0	34.2	32.6	30.2	29.3
42.5°	1101.7	967.2	619.3	317.8	79.9	36.7	31.0	31.8	31.0	26.9	26.1
45°	1175.0	1018.6	624.2	277.1	53.0	30.2	27.7	29.3	30.2	26.9	26.1
47.5°	1248.4	1074.8	627.4	215.9	35.0	29.3	26.1	28.5	29.3	26.1	25.3
50°	1325.8	1126.1	622.6	138.5	31.0	27.7	25.3	26.1	27.7	26.1	25.3
52.5°	1393.4	1172.6	599.7	77.4	30.2	26.9	23.6	24.4	26.9	25.3	25.3
55°	1462.7	1218.2	557.4	45.6	29.3	25.3	23.6	24.4	25.3	23.6	24.4
57.5°	1525.4	1262.2	493.8	37.5	29.3	24.4	24.4	22.8	22.8	21.2	21.2
60°	1573.5	1302.2	418.0	35.0	27.7	25.3	22.8	21.2	19.6	17.9	17.9
62.5°	1611.8	1336.4	310.5	32.6	26.9	24.4	21.2	18.7	16.3	14.7	14.7
65°	1633.0	1343.7	219.2	29.3	25.3	23.6	19.6	16.3	13.0	12.2	12.2
67.5°	1608.5	1305.4	133.6	27.7	23.6	22.8	18.7	14.7	11.4	10.6	10.6
70°	1514.8	1202.7	75.0	25.3	21.2	20.4	17.1	13.0	10.6	9.0	9.0
72.5°	1360.0	1052.0	37.5	21.2	17.9	17.9	15.5	11.4	9.8	8.1	8.1
75°	1149.0	862.9	26.9	15.5	14.7	14.7	13.0	10.6	9.0	7.3	7.3
77.5°	841.8	568.8	22.0	13.0	10.6	10.6	11.4	9.8	8.1	6.5	6.5
80°	436.0	281.9	18.7	9.8	9.0	8.1	8.1	8.1	6.5	5.7	5.7
82.5°	193.1	108.4	12.2	7.3	7.3	6.5	6.5	6.5	5.7	4.9	4.9
85°	37.5	20.4	6.5	5.7	4.9	4.9	4.9	4.1	4.1	4.1	4.1
87.5°	3.3	3.3	3.3	3.3	3.3	2.4	2.4	2.4	2.4	2.4	2.4
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)