

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: P507484

Luminaire Tested: **VERD-S-CA1-30-727-U-T4-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507484
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-30-727-U-T4-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 590mA LED AND TYPE IV OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3631.3 lumens
Efficiency: N/A
Efficacy: 106.8 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

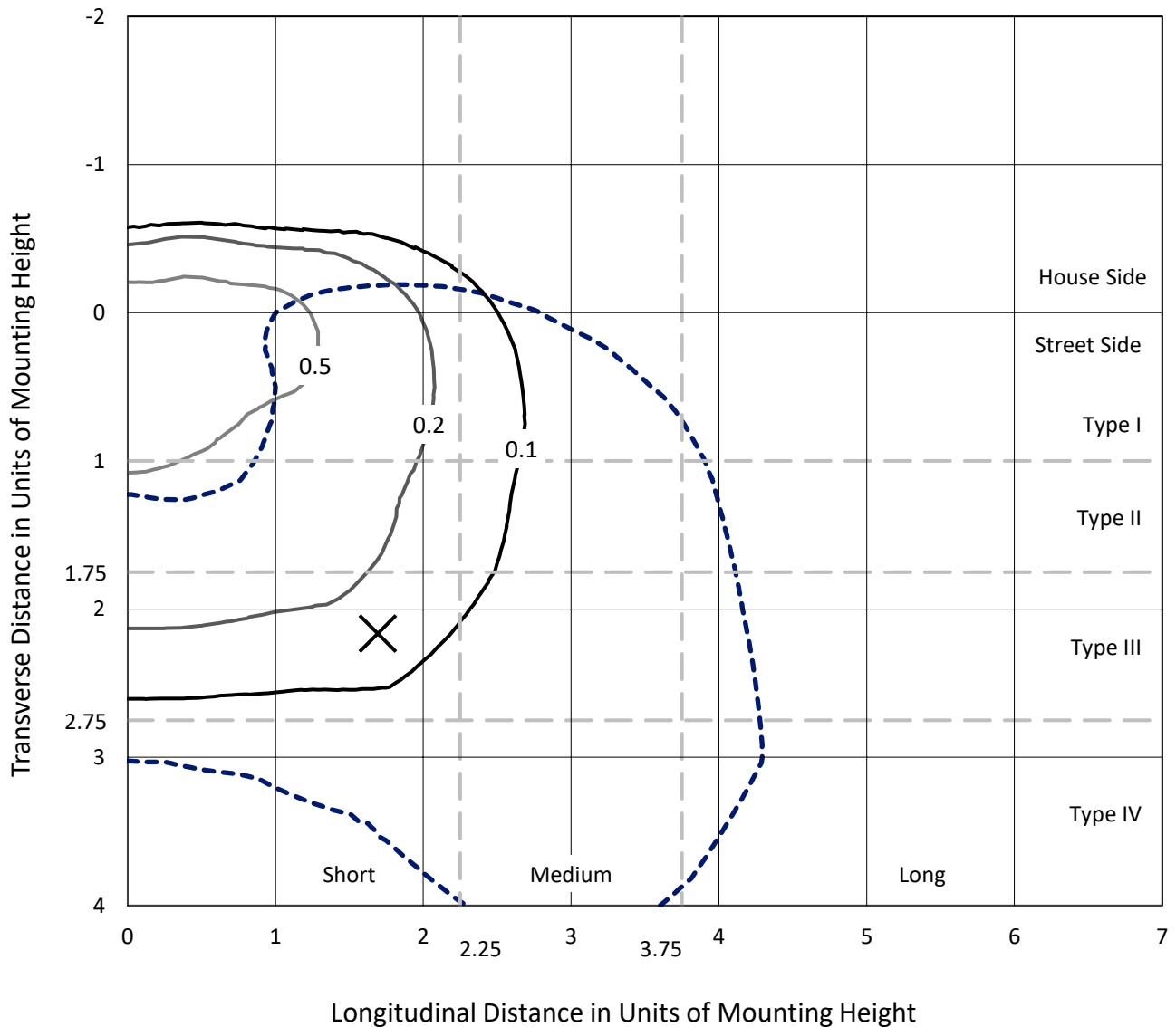
Input Watts (W): 34
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

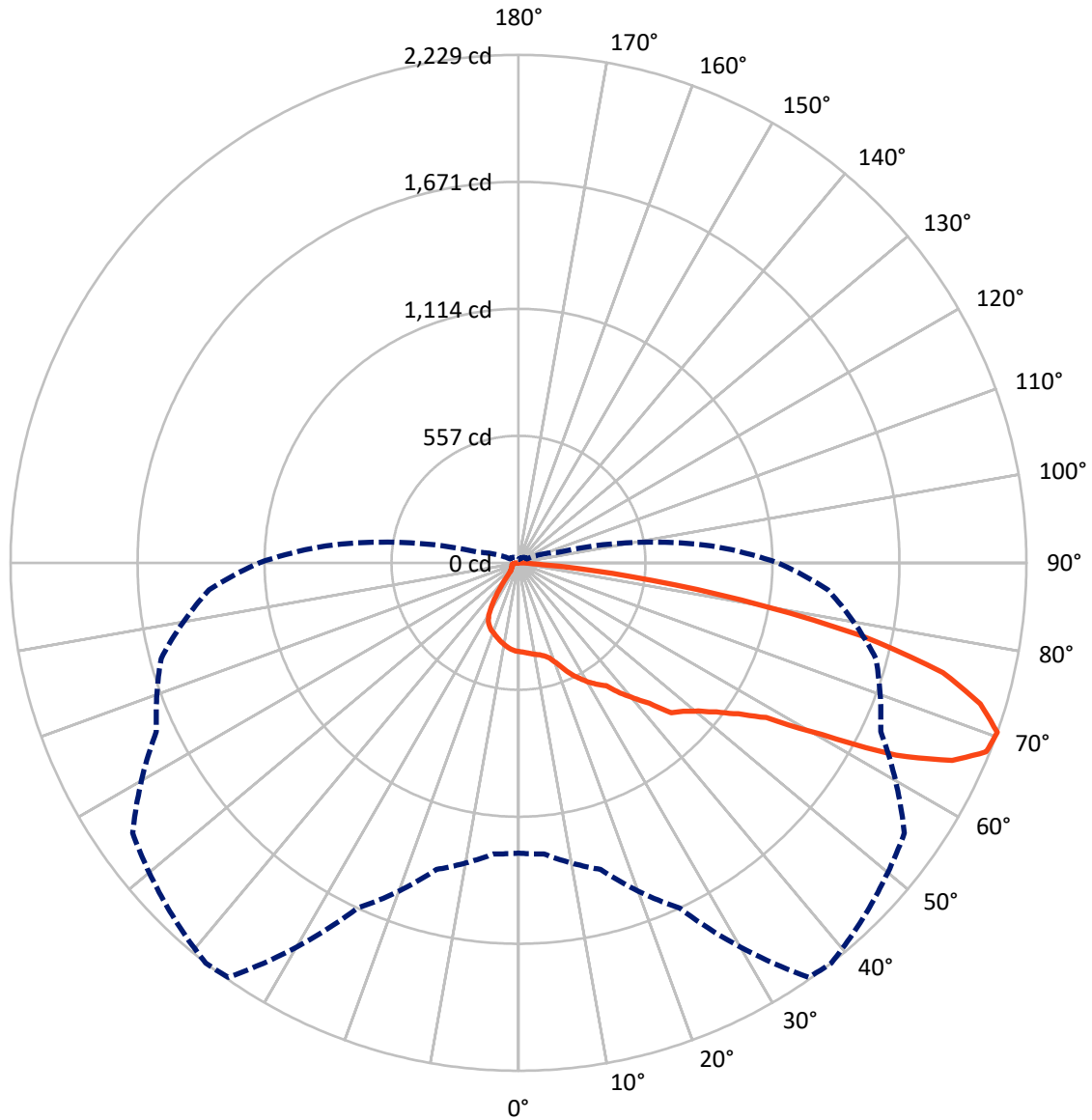
✕ Max cd
 - - - 1/2 Max cd



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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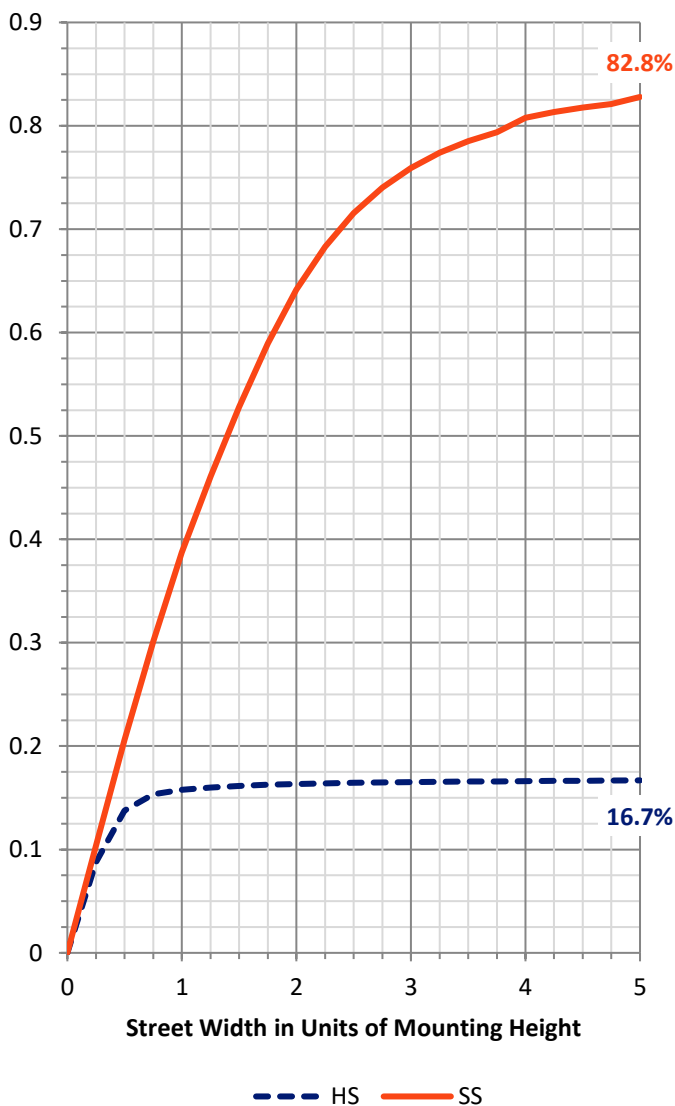
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	614.4	0.0	614.4
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	3017.0	0.0	3017.0
	% Fixture	83.1	0.0	83.1
Total	Lumens	3631.3	0.0	3631.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.2	1.0
10°-20°	112.8	3.1
20°-30°	207.6	5.7
30°-40°	325.0	9.0
40°-50°	493.8	13.6
50°-60°	710.0	19.6
60°-70°	953.8	26.3
70°-80°	706.7	19.5
80°-90°	84.5	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°	3631.3	100.0
0°-180°	3631.3	100.0

Coefficient of Utilization



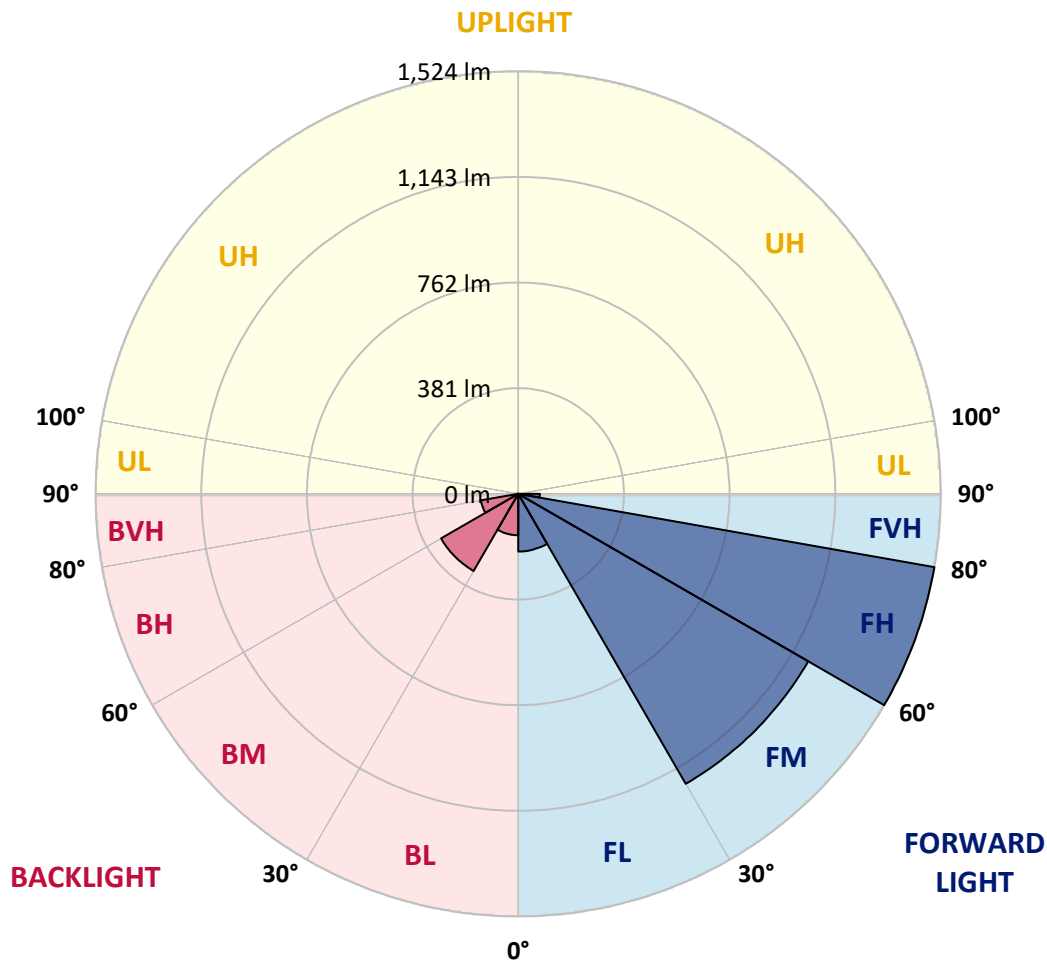
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	208.2	5.7			
FM (30°-60°)	1207.4	33.2			
FH (60°-80°)	1523.7	42.0			G1/1800
FVH (80°-90°)	77.7	2.1			G1/100
BL (0°-30°)	149.4	4.1	B1/500		
BM (30°-60°)	321.4	8.8	B1/1000		
BH (60°-80°)	136.8	3.8	B1/500		G1/500
BVH (80°-90°)	6.8	0.2			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	389.2	389.2	389.2	389.2	389.2	389.2	389.2	389.2	389.2	389.2	389.2
2.5°	395.0	395.0	395.0	393.9	393.9	392.7	392.7	391.5	391.5	390.4	389.2
5°	400.8	400.8	399.6	398.5	397.3	397.3	397.3	396.2	393.9	393.9	391.5
7.5°	402.9	402.9	402.9	402.9	402.9	402.9	402.9	401.9	400.8	399.6	397.3
10°	404.1	404.1	405.2	405.2	407.5	408.7	408.7	409.8	408.7	406.4	404.1
12.5°	407.5	408.7	408.7	409.8	413.3	414.4	415.6	419.0	419.0	416.7	414.4
15°	414.4	414.4	415.6	417.9	422.5	423.7	427.1	430.6	432.9	430.6	428.3
17.5°	435.2	435.2	435.2	435.2	437.5	438.6	443.2	449.0	451.3	451.3	450.1
20°	476.5	476.5	474.2	469.6	467.3	467.3	466.1	468.4	473.0	476.5	477.6
22.5°	523.5	522.4	521.2	514.3	506.4	504.1	501.8	499.5	501.8	507.5	509.8
25°	560.3	561.5	560.3	551.1	544.2	543.1	539.6	540.8	540.8	541.9	545.4
27.5°	590.1	592.4	587.8	583.2	578.6	575.2	577.5	580.9	586.7	584.4	591.3
30°	623.4	622.2	617.8	612.0	608.6	607.4	606.3	618.8	634.9	641.8	649.9
32.5°	683.1	682.0	672.8	644.1	636.1	636.1	638.4	654.5	679.7	701.5	722.2
35°	738.2	738.2	726.7	707.3	672.8	662.5	668.3	687.7	724.5	768.1	801.4
37.5°	803.7	804.8	792.2	762.4	734.8	724.5	696.9	724.5	769.3	853.1	894.4
40°	879.5	877.2	856.5	824.4	788.7	780.7	757.8	763.5	826.7	952.9	993.2
42.5°	922.0	919.7	905.9	880.7	851.9	842.7	822.1	816.4	903.6	1063.2	1089.6
45°	963.3	965.6	964.4	951.8	944.9	939.2	927.7	928.9	998.8	1172.2	1173.4
47.5°	987.4	992.0	973.6	972.5	973.6	973.6	989.7	1021.8	1089.6	1265.2	1246.9
50°	1058.6	1053.9	997.7	1000.0	1014.9	1021.8	1051.6	1098.8	1215.8	1345.6	1310.1
52.5°	1202.1	1169.9	1098.8	1064.3	1070.1	1087.3	1122.9	1190.6	1342.2	1424.8	1366.3
55°	1362.9	1349.1	1275.6	1187.2	1148.2	1169.9	1207.9	1279.0	1442.0	1492.6	1413.4
57.5°	1474.3	1479.9	1482.2	1411.1	1274.4	1281.3	1305.5	1367.5	1531.6	1561.5	1449.0
60°	1582.2	1590.1	1633.9	1623.5	1578.7	1528.2	1434.0	1454.7	1608.5	1610.8	1476.6
62.5°	1668.3	1672.9	1742.9	1775.0	1855.3	1858.8	1706.1	1575.3	1686.7	1646.4	1486.8
65°	1624.6	1637.3	1739.5	1837.0	2065.6	2090.8	2031.0	1729.1	1746.3	1662.5	1479.9
67.5°	1477.6	1498.3	1594.7	1818.6	2196.4	2213.6	2160.8	2008.1	1768.1	1656.7	1442.0
70°	1273.3	1282.5	1392.7	1671.7	2220.5	2228.6	2163.1	2066.7	1753.2	1623.5	1362.9
72.5°	1035.7	1046.0	1141.3	1437.4	2111.5	2118.4	2101.1	2020.7	1717.6	1561.5	1202.1
75°	777.3	793.3	884.1	1122.9	1864.5	1923.1	1958.8	1924.3	1618.9	1356.0	915.1
77.5°	513.2	514.3	606.3	848.5	1477.6	1536.2	1541.9	1513.3	1149.3	850.8	406.4
80°	220.5	241.2	354.7	569.4	981.7	992.0	1003.4	927.7	589.0	262.9	44.8
82.5°	73.5	81.5	149.2	300.8	483.4	494.9	474.2	411.0	165.3	35.6	25.3
85°	31.0	34.4	45.9	82.6	117.1	106.8	99.9	81.5	23.0	20.7	16.1
87.5°	1.2	1.2	1.2	1.2	2.3	1.2	2.3	2.3	3.5	3.5	4.6
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°	389.2	389.2	389.2	389.2	389.2	389.2	389.2	389.2	389.2	389.2	389.2
2.5°	389.2	389.2	389.2	388.1	388.1	386.9	386.9	385.8	385.8	385.8	385.8
5°	391.5	391.5	389.2	388.1	385.8	383.5	381.2	378.9	376.6	376.6	376.6
7.5°	396.2	395.0	391.5	386.9	382.3	376.6	373.1	368.5	366.2	363.9	365.1
10°	402.9	400.8	396.2	389.2	380.0	370.8	362.8	355.9	352.4	349.1	347.9
12.5°	412.1	409.8	402.9	392.7	378.9	365.1	352.4	342.2	335.3	331.8	330.7
15°	426.0	422.5	413.3	398.5	378.9	358.2	341.0	326.1	314.6	307.7	307.7
17.5°	447.8	444.4	431.7	411.0	383.5	354.7	328.4	303.1	288.2	280.2	279.0
20°	476.5	471.9	456.9	427.1	391.5	353.6	314.6	282.5	257.2	243.4	242.2
22.5°	509.8	506.4	483.4	444.4	399.6	351.3	304.2	261.8	226.2	200.9	195.1
25°	548.8	543.1	508.7	458.1	401.9	345.6	289.4	240.0	190.5	159.6	153.8
27.5°	594.7	582.1	531.6	468.4	400.8	334.1	272.1	208.9	144.6	121.7	118.3
30°	644.1	622.2	554.6	475.3	393.9	315.7	242.2	156.1	104.5	90.7	87.2
32.5°	700.4	666.0	575.2	476.5	378.9	290.5	191.7	106.8	74.7	66.6	65.5
35°	768.1	721.1	597.0	471.9	357.0	249.1	133.2	72.4	55.1	52.8	52.8
37.5°	856.5	791.0	621.1	458.1	323.8	192.8	88.4	49.4	48.2	49.4	49.4
40°	949.5	871.5	651.0	437.5	281.3	138.9	56.3	45.9	45.9	47.1	47.1
42.5°	1038.0	948.3	688.9	409.8	233.1	89.5	45.9	43.6	42.5	43.6	44.8
45°	1112.5	1020.7	725.6	380.0	178.0	57.4	44.8	41.3	39.0	40.2	40.2
47.5°	1179.1	1075.8	746.3	344.5	125.2	44.8	44.8	37.9	35.6	35.6	36.7
50°	1235.4	1119.4	757.8	303.1	79.3	43.6	40.2	35.6	33.3	33.3	32.1
52.5°	1282.5	1151.6	756.6	257.2	51.7	42.5	37.9	33.3	29.8	31.0	31.0
55°	1318.0	1176.8	739.4	197.4	43.6	40.2	36.7	31.0	28.6	31.0	31.0
57.5°	1345.6	1188.3	707.3	137.7	42.5	36.7	34.4	28.6	26.5	27.5	27.5
60°	1359.4	1182.6	656.8	86.1	41.3	35.6	32.1	26.5	24.2	23.0	24.2
62.5°	1354.8	1161.9	584.4	57.4	39.0	33.3	29.8	25.3	21.9	19.6	19.6
65°	1327.2	1116.0	498.3	48.2	37.9	33.3	28.6	24.2	19.6	18.4	18.4
67.5°	1265.2	1020.7	369.7	44.8	37.9	32.1	27.5	23.0	19.6	17.3	17.3
70°	1137.8	849.6	178.0	41.3	37.9	33.3	27.5	21.9	18.4	16.1	16.1
72.5°	920.8	600.5	45.9	35.6	36.7	33.3	28.6	21.9	17.3	15.0	15.0
75°	600.5	288.2	39.0	28.6	33.3	31.0	27.5	21.9	17.3	13.8	13.8
77.5°	195.1	40.2	35.6	25.3	29.8	29.8	27.5	21.9	17.3	12.7	12.7
80°	31.0	28.6	31.0	19.6	21.9	25.3	21.9	20.7	16.1	11.5	11.5
82.5°	21.9	26.5	23.0	16.1	19.6	20.7	17.3	13.8	11.5	10.4	10.4
85°	16.1	17.3	13.8	12.7	15.0	17.3	13.8	10.4	9.2	9.2	9.2
87.5°	5.8	6.9	6.9	9.2	11.5	12.7	8.1	5.8	6.9	6.9	6.9
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)