

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: P507508

Luminaire Tested: **VERD-S-CA1-30-750-U-T4-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507508
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-CA1-30-750-U-T4-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 590mA LED AND TYPE IV OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4367.7 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

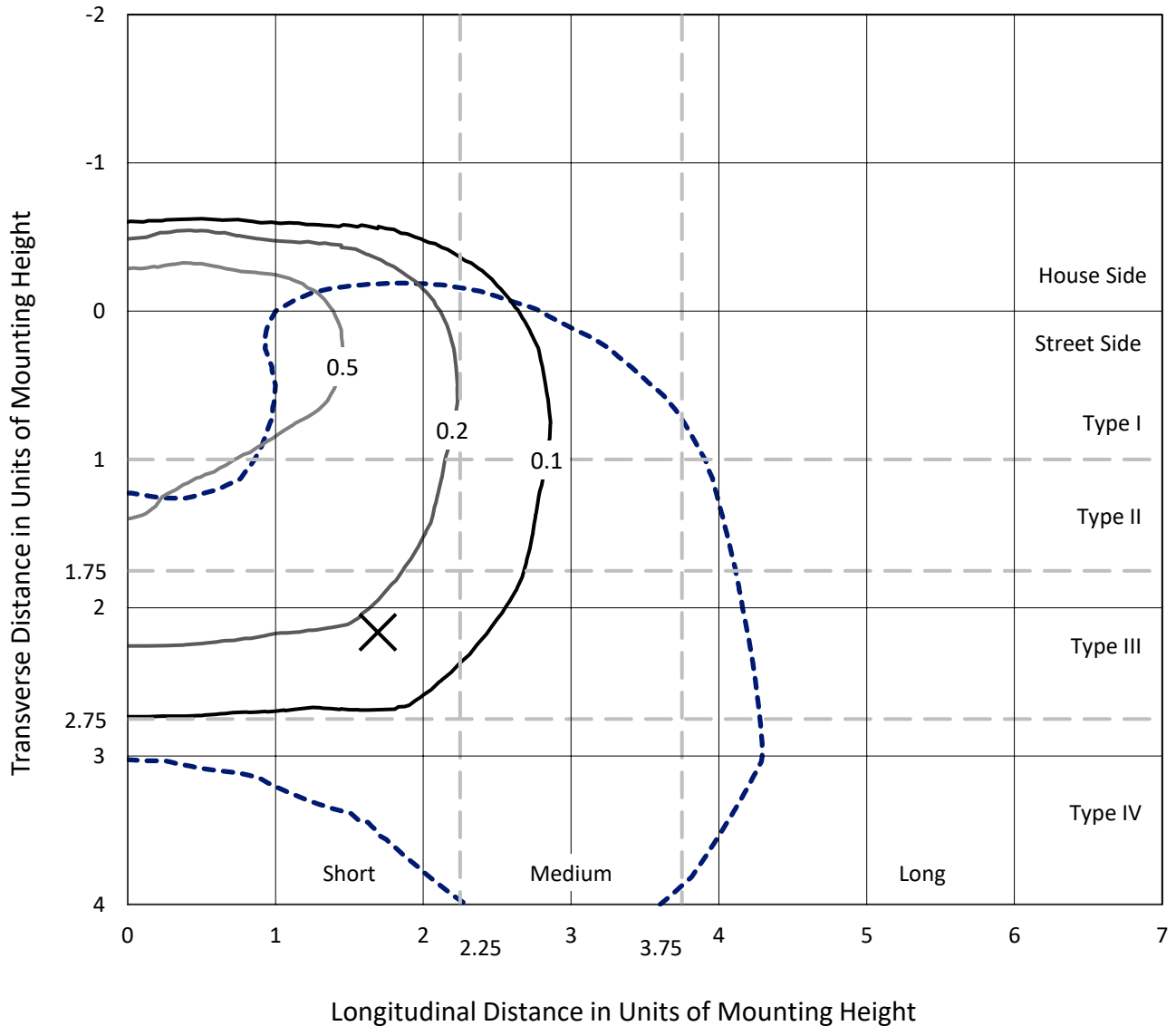
Input Watts (W): 34
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

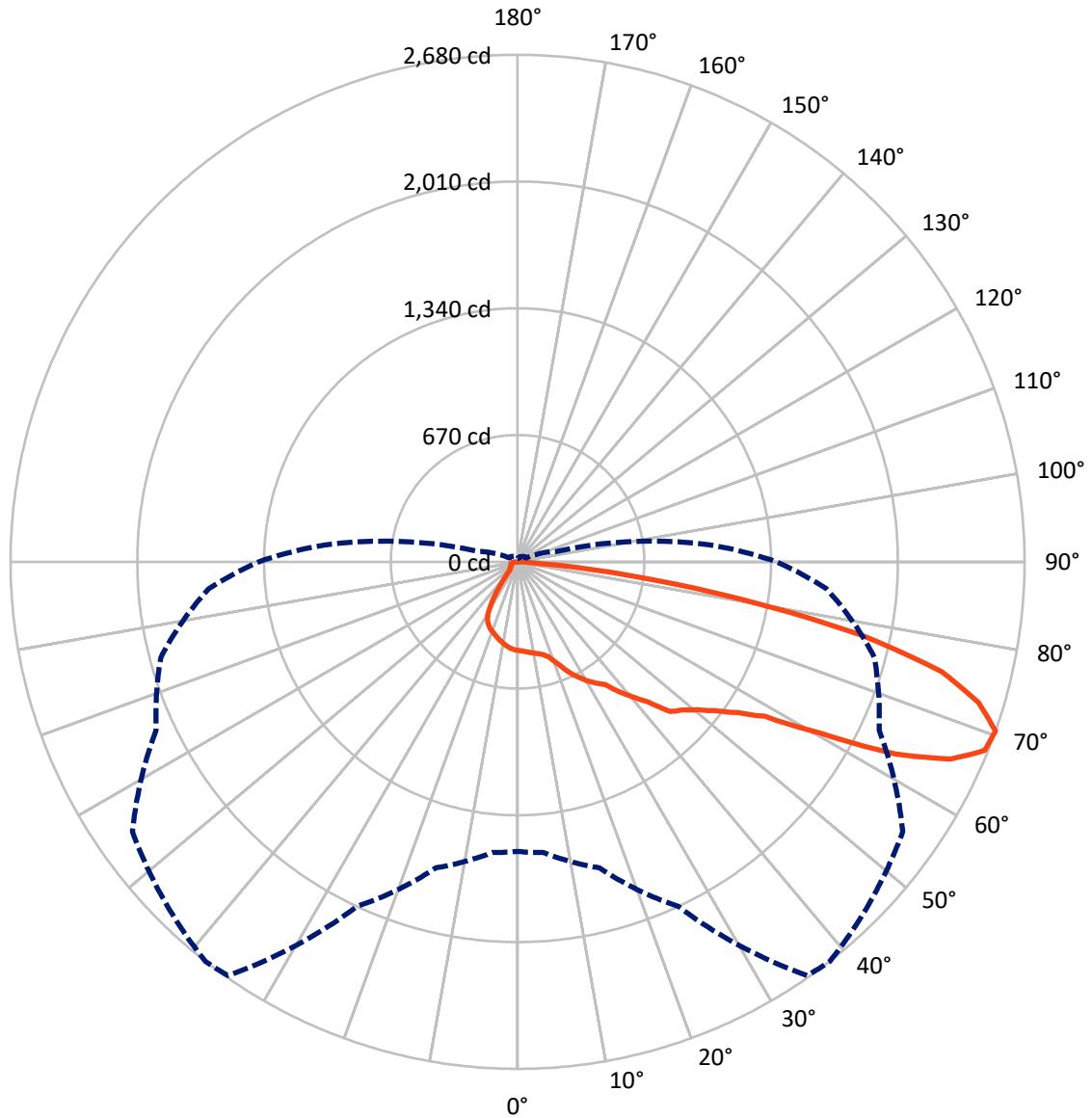
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 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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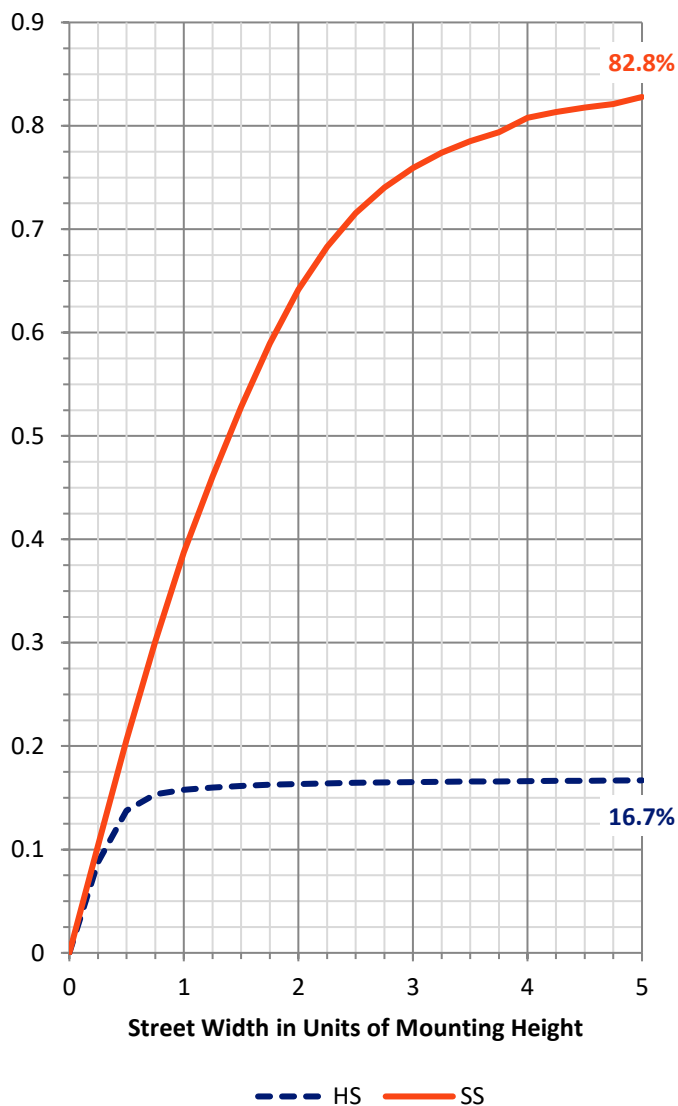
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	738.9	0.0	738.9
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	3628.8	0.0	3628.8
	% Fixture	83.1	0.0	83.1
Total	Lumens	4367.7	0.0	4367.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.8	1.0
10°-20°	135.6	3.1
20°-30°	249.7	5.7
30°-40°	390.9	9.0
40°-50°	593.9	13.6
50°-60°	853.9	19.6
60°-70°	1147.2	26.3
70°-80°	850.0	19.5
80°-90°	101.6	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°	4367.7	100.0
0°-180°	4367.7	100.0

Coefficient of Utilization



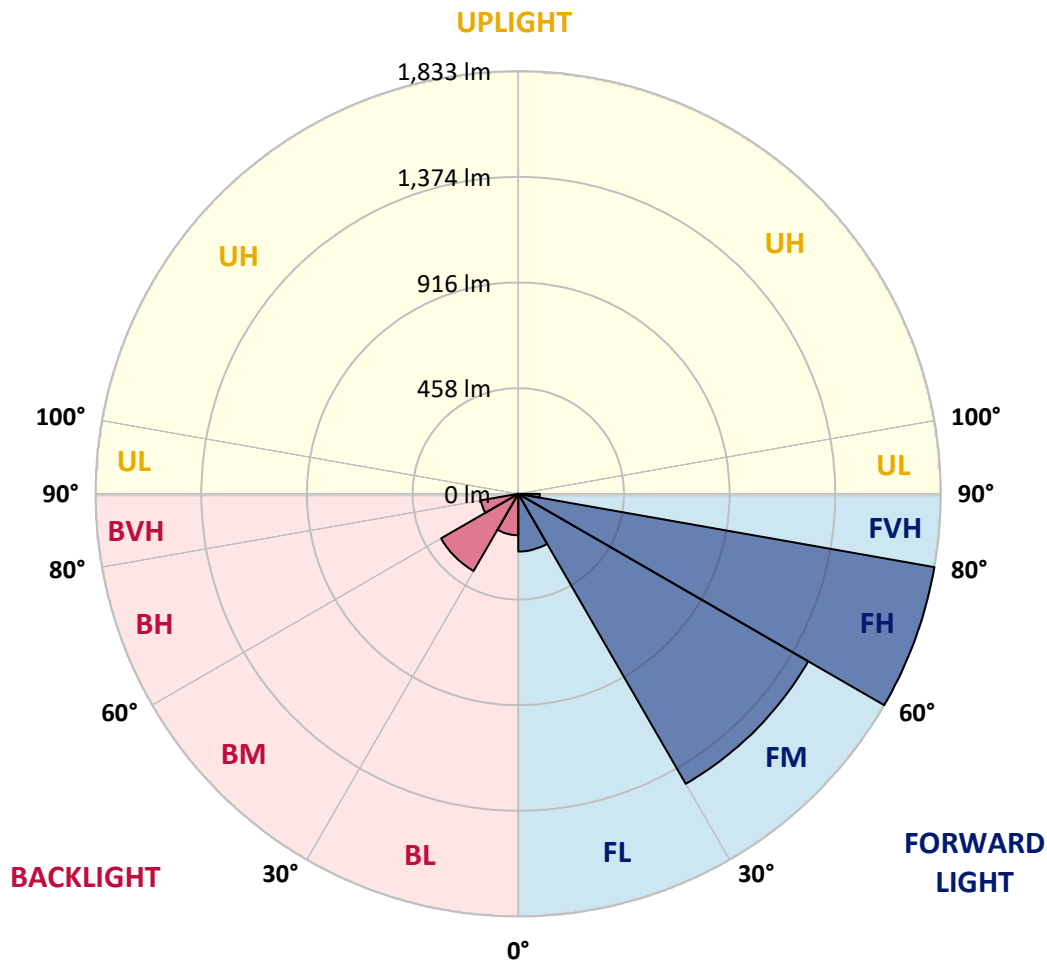
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	250.4	5.7			
FM (30°-60°)	1452.2	33.2			
FH (60°-80°)	1832.6	42.0			G2/5000
FVH (80°-90°)	93.5	2.1			G1/100
BL (0°-30°)	179.7	4.1	B1/500		
BM (30°-60°)	386.5	8.8	B1/1000		
BH (60°-80°)	164.5	3.8	B1/500		G1/500
BVH (80°-90°)	8.1	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2
2.5°	475.1	475.1	475.1	473.7	473.7	472.3	472.3	470.9	470.9	469.6	468.2
5°	482.0	482.0	480.6	479.2	477.8	477.8	477.8	476.5	473.7	473.7	470.9
7.5°	484.7	484.7	484.7	484.7	484.7	484.7	484.7	483.4	482.0	480.6	477.8
10°	486.1	486.1	487.5	487.5	490.3	491.7	491.7	493.0	491.7	488.9	486.1
12.5°	490.3	491.7	491.7	493.0	497.2	498.6	499.9	504.1	504.1	501.3	498.6
15°	498.6	498.6	499.9	502.7	508.2	509.6	513.7	517.9	520.6	517.9	515.1
17.5°	523.4	523.4	523.4	523.4	526.2	527.6	533.1	540.0	542.7	542.7	541.4
20°	573.1	573.1	570.4	564.8	562.1	562.1	560.7	563.4	569.0	573.1	574.5
22.5°	629.7	628.3	627.0	618.7	609.0	606.3	603.5	600.7	603.5	610.4	613.2
25°	673.9	675.3	673.9	662.9	654.6	653.2	649.1	650.4	650.4	651.8	656.0
27.5°	709.8	712.6	707.0	701.5	696.0	691.9	694.6	698.8	705.7	702.9	711.2
30°	749.8	748.5	742.9	736.0	731.9	730.5	729.1	744.3	763.7	771.9	781.6
32.5°	821.6	820.3	809.2	774.7	765.0	765.0	767.8	787.1	817.5	843.7	868.6
35°	887.9	887.9	874.1	850.6	809.2	796.8	803.7	827.2	871.3	923.8	964.0
37.5°	966.7	968.1	952.9	916.9	883.8	871.3	838.2	871.3	925.2	1026.1	1075.8
40°	1057.9	1055.1	1030.2	991.6	948.7	939.0	911.4	918.3	994.3	1146.2	1194.6
42.5°	1108.9	1106.2	1089.6	1059.2	1024.7	1013.7	988.8	981.9	1086.9	1278.8	1310.5
45°	1158.7	1161.4	1160.0	1144.8	1136.6	1129.7	1115.9	1117.2	1201.5	1409.9	1411.3
47.5°	1187.6	1193.2	1171.1	1169.7	1171.1	1171.1	1190.4	1229.1	1310.5	1521.8	1499.7
50°	1273.3	1267.7	1200.1	1202.8	1220.8	1229.1	1265.0	1321.6	1462.4	1618.5	1575.6
52.5°	1445.8	1407.2	1321.6	1280.2	1287.1	1307.8	1350.6	1432.0	1614.4	1713.8	1643.4
55°	1639.3	1622.7	1534.2	1427.9	1381.0	1407.2	1452.7	1538.4	1734.5	1795.3	1700.0
57.5°	1773.2	1780.1	1782.9	1697.3	1532.8	1541.1	1570.1	1644.8	1842.2	1878.1	1742.8
60°	1903.0	1912.6	1965.1	1952.7	1898.8	1838.1	1724.9	1749.7	1934.7	1937.5	1776.0
62.5°	2006.5	2012.1	2096.3	2134.9	2231.7	2235.8	2052.1	1894.7	2028.6	1980.3	1788.4
65°	1954.1	1969.3	2092.1	2209.5	2484.4	2514.8	2443.0	2079.7	2100.4	1999.6	1780.1
67.5°	1777.3	1802.2	1918.2	2187.4	2641.8	2662.5	2599.0	2415.3	2126.7	1992.7	1734.5
70°	1531.4	1542.5	1675.2	2010.7	2670.8	2680.4	2601.7	2485.8	2108.7	1952.7	1639.3
72.5°	1245.6	1258.1	1372.7	1729.0	2539.6	2547.9	2527.2	2430.5	2065.9	1878.1	1445.8
75°	934.9	954.3	1063.4	1350.6	2242.7	2313.2	2356.0	2314.5	1947.2	1631.0	1100.7
77.5°	617.3	618.7	729.1	1020.6	1777.3	1847.7	1854.7	1820.1	1382.3	1023.3	488.9
80°	265.1	290.0	426.8	685.0	1180.7	1193.2	1207.0	1115.9	708.4	316.2	53.8
82.5°	88.4	98.0	179.5	361.9	581.4	595.2	570.4	494.4	198.8	42.8	30.4
85°	37.3	41.4	55.2	99.4	140.8	128.4	120.1	98.0	27.6	24.9	19.3
87.5°	1.4	1.4	1.4	1.4	2.8	1.4	2.8	2.8	4.1	4.1	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°	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2
2.5°	468.2	468.2	468.2	466.8	466.8	465.4	465.4	464.0	464.0	464.0	464.0
5°	470.9	470.9	468.2	466.8	464.0	461.3	458.5	455.8	453.0	453.0	453.0
7.5°	476.5	475.1	470.9	465.4	459.9	453.0	448.8	443.3	440.6	437.8	439.2
10°	484.7	482.0	476.5	468.2	457.1	446.1	436.4	428.1	424.0	419.9	418.5
12.5°	495.8	493.0	484.7	472.3	455.8	439.2	424.0	411.6	403.3	399.1	397.8
15°	512.4	508.2	497.2	479.2	455.8	430.9	410.2	392.2	378.4	370.1	370.1
17.5°	538.6	534.5	519.3	494.4	461.3	426.8	395.0	364.6	346.7	337.0	335.6
20°	573.1	567.6	549.6	513.7	470.9	425.4	378.4	339.8	309.3	292.7	291.3
22.5°	613.2	609.0	581.4	534.5	480.6	422.6	366.0	314.8	272.0	241.6	234.7
25°	660.1	653.2	611.8	551.0	483.4	415.7	348.1	288.6	229.2	191.9	185.0
27.5°	715.3	700.1	639.4	563.4	482.0	401.9	327.3	251.3	174.0	146.4	142.2
30°	774.7	748.5	667.0	571.7	473.7	379.8	291.3	187.8	125.6	109.1	104.9
32.5°	842.4	800.9	691.9	573.1	455.8	349.4	230.6	128.4	89.7	80.1	78.7
35°	923.8	867.2	718.1	567.6	429.5	299.6	160.2	87.0	66.3	63.5	63.5
37.5°	1030.2	951.5	747.1	551.0	389.5	232.0	106.3	59.4	58.0	59.4	59.4
40°	1142.1	1048.2	783.0	526.2	338.4	167.1	67.7	55.2	55.2	56.6	56.6
42.5°	1248.4	1140.7	828.5	493.0	280.3	107.7	55.2	52.5	51.1	52.5	53.8
45°	1338.1	1227.7	872.7	457.1	214.0	69.0	53.8	49.7	46.9	48.3	48.3
47.5°	1418.2	1294.0	897.6	414.3	150.5	53.8	53.8	45.6	42.8	42.8	44.2
50°	1485.9	1346.4	911.4	364.6	95.3	52.5	48.3	42.8	40.0	40.0	38.7
52.5°	1542.5	1385.1	910.0	309.3	62.1	51.1	45.6	40.0	35.9	37.3	37.3
55°	1585.4	1415.5	889.3	237.5	52.5	48.3	44.2	37.3	34.5	37.3	37.3
57.5°	1618.5	1429.3	850.6	165.7	51.1	44.2	41.4	34.5	31.8	33.1	33.1
60°	1635.1	1422.4	789.9	103.6	49.7	42.8	38.7	31.8	29.0	27.6	29.0
62.5°	1629.6	1397.5	702.9	69.0	46.9	40.0	35.9	30.4	26.2	23.5	23.5
65°	1596.5	1342.3	599.3	58.0	45.6	40.0	34.5	29.0	23.5	22.1	22.1
67.5°	1521.8	1227.7	444.7	53.8	45.6	38.7	33.1	27.6	23.5	20.7	20.7
70°	1368.5	1022.0	214.0	49.7	45.6	40.0	33.1	26.2	22.1	19.3	19.3
72.5°	1107.6	722.2	55.2	42.8	44.2	40.0	34.5	26.2	20.7	17.9	17.9
75°	722.2	346.7	46.9	34.5	40.0	37.3	33.1	26.2	20.7	16.6	16.6
77.5°	234.7	48.3	42.8	30.4	35.9	35.9	33.1	26.2	20.7	15.2	15.2
80°	37.3	34.5	37.3	23.5	26.2	30.4	26.2	24.9	19.3	13.8	13.8
82.5°	26.2	31.8	27.6	19.3	23.5	24.9	20.7	16.6	13.8	12.4	12.4
85°	19.3	20.7	16.6	15.2	17.9	20.7	16.6	12.4	11.0	11.0	11.0
87.5°	6.9	8.3	8.3	11.0	13.8	15.2	9.7	6.9	8.3	8.3	8.3
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)