

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: P507636

Luminaire Tested: **VERD-S-CA1-60-730-U-T4-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507636
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-CA1-60-730-U-T4-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1150mA LED AND TYPE IV OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7641 lumens
Efficiency: N/A
Efficacy: 120.7 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

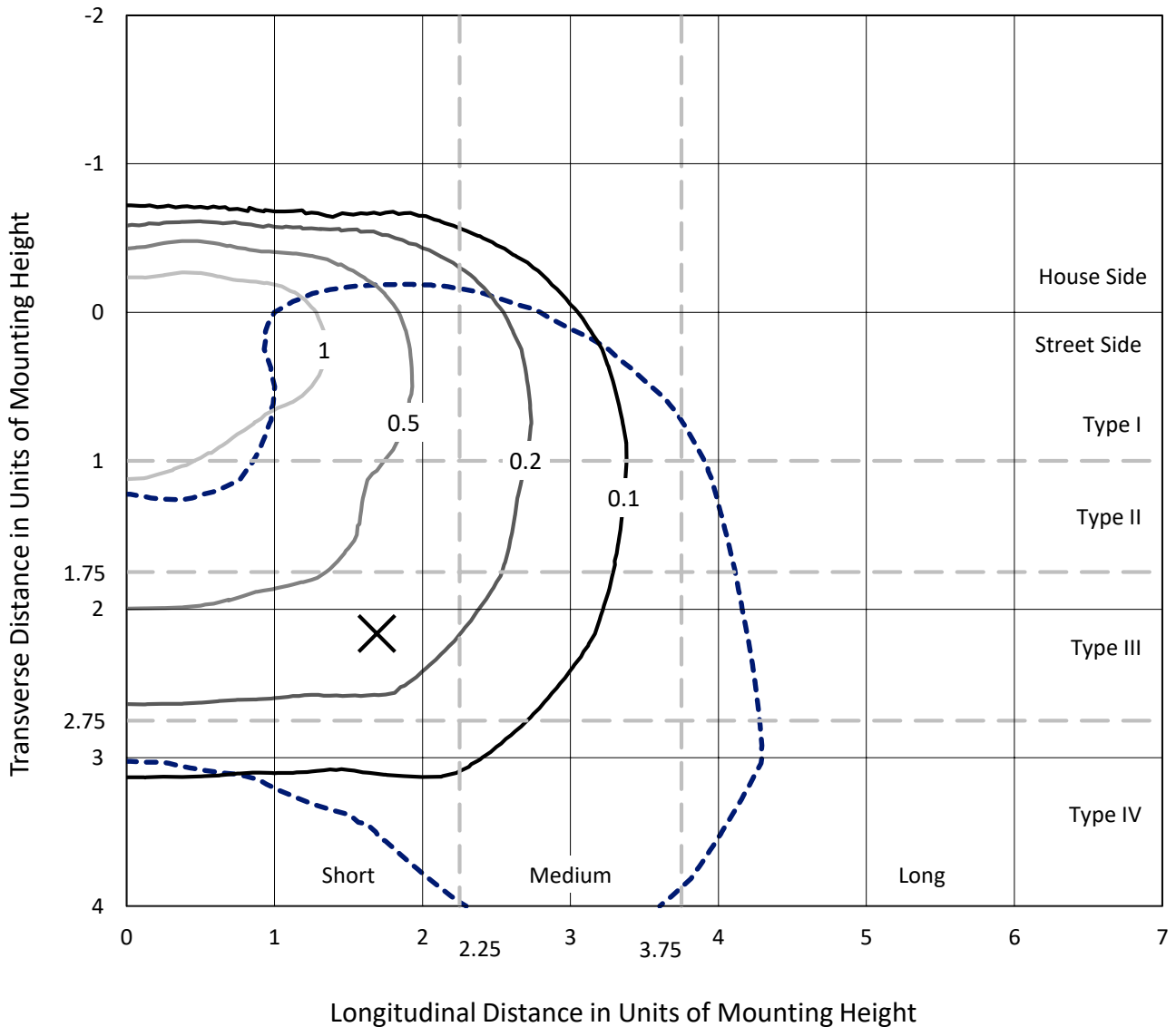
Input Watts (W): 63.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

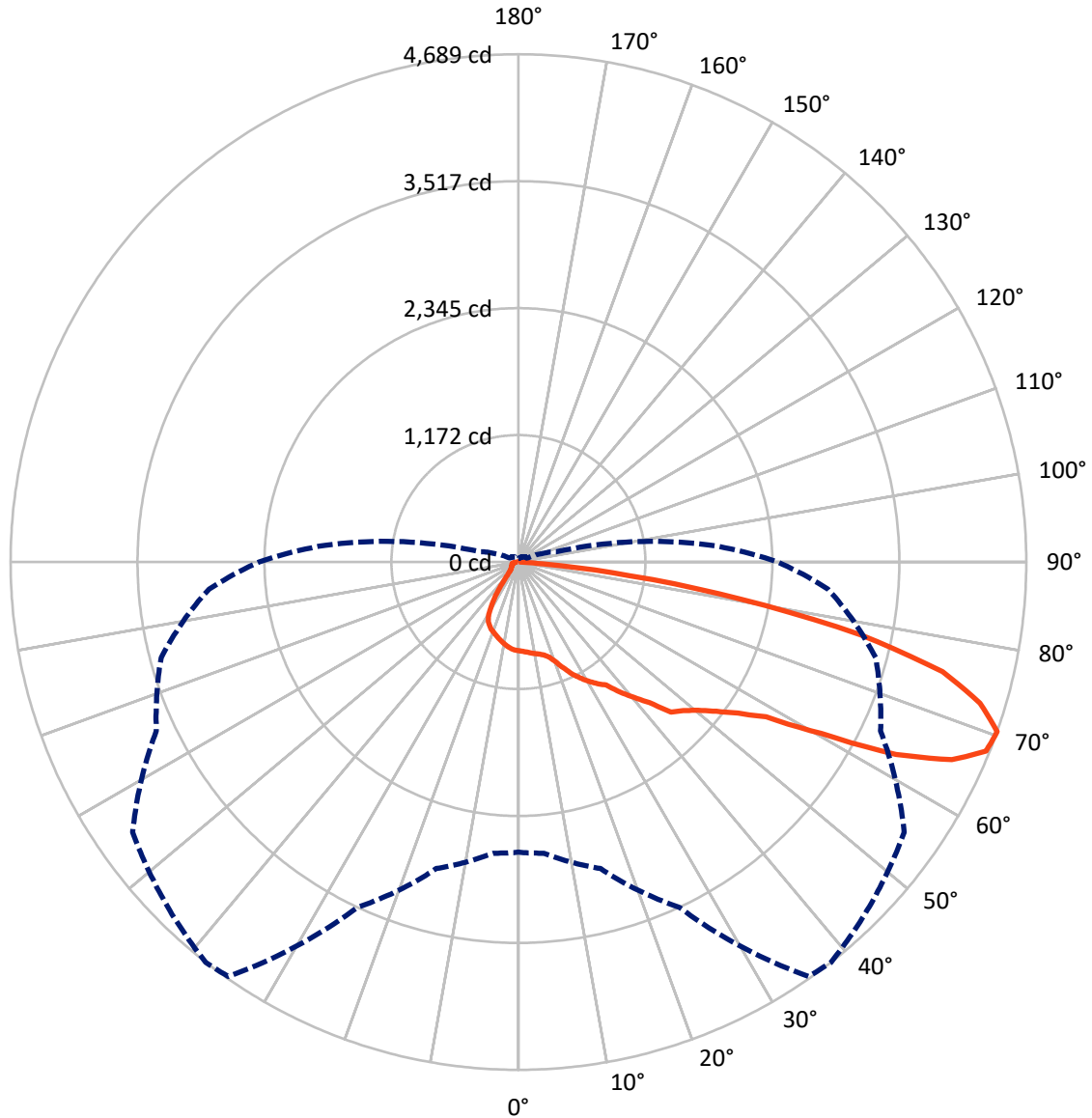
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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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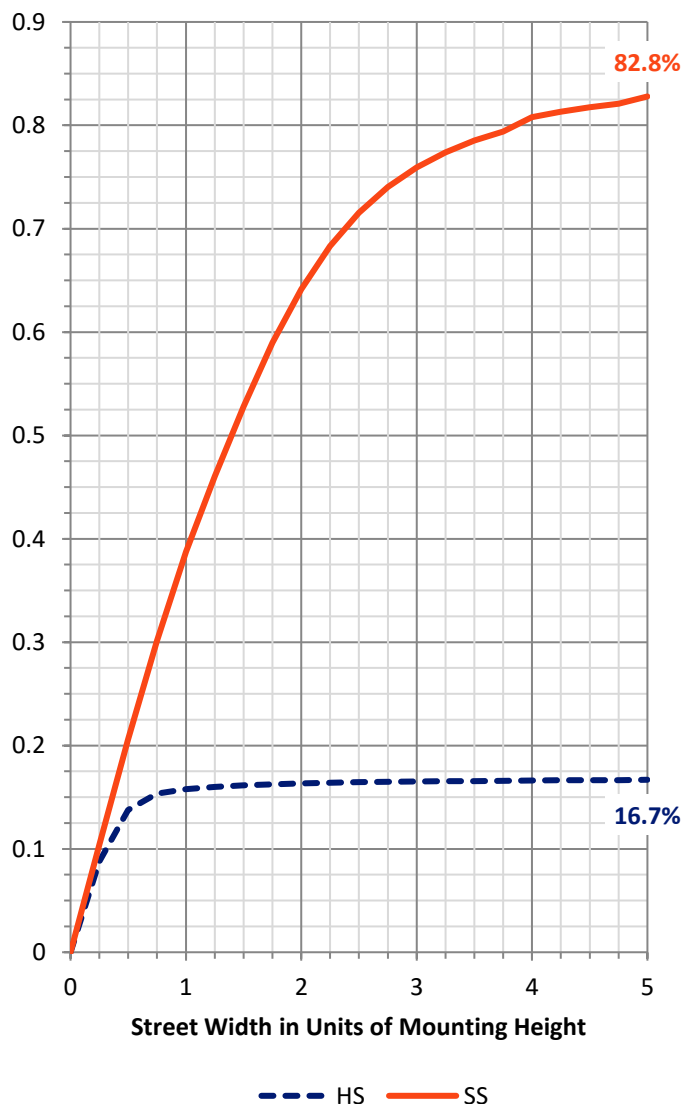
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1292.7	0.0	1292.7
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	6348.3	0.0	6348.3
	% Fixture	83.1	0.0	83.1
Total	Lumens	7641.0	0.0	7641.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.3	1.0
10°-20°	237.3	3.1
20°-30°	436.9	5.7
30°-40°	683.9	9.0
40°-50°	1039.0	13.6
50°-60°	1493.9	19.6
60°-70°	2007.0	26.3
70°-80°	1486.9	19.5
80°-90°	177.8	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°	7641.0	100.0
0°-180°	7641.0	100.0

Coefficient of Utilization



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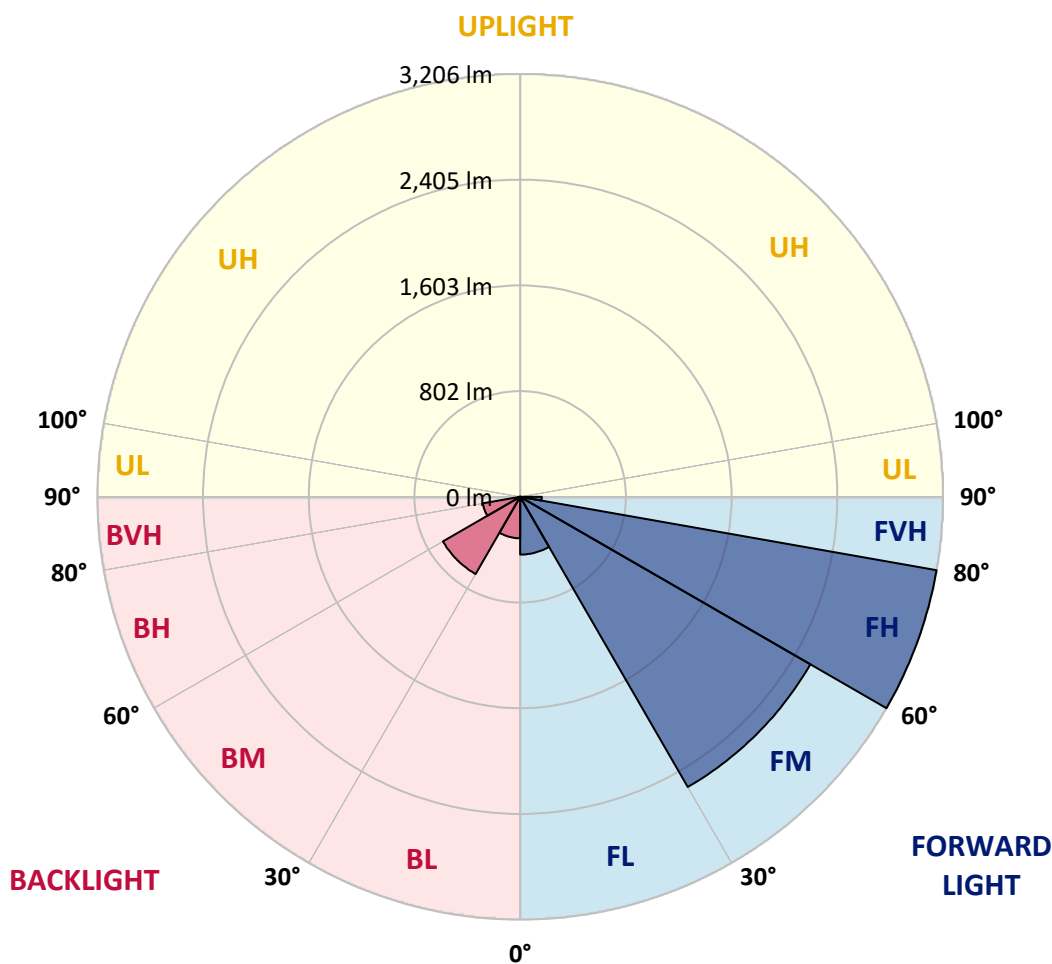
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	438.1	5.7			
FM	(30°-60°)	2540.6	33.2			
FH	(60°-80°)	3206.1	42.0			G2/5000
FVH	(80°-90°)	163.6	2.1			G2/225
BL	(0°-30°)	314.4	4.1	B1/500		
BM	(30°-60°)	676.2	8.8	B1/1000		
BH	(60°-80°)	287.8	3.8	B1/500		G1/500
BVH	(80°-90°)	14.3	0.2			G1/100
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°	819.0	819.0	819.0	819.0	819.0	819.0	819.0	819.0	819.0	819.0	819.0
2.5°	831.1	831.1	831.1	828.7	828.7	826.2	826.2	823.8	823.8	821.4	819.0
5°	843.2	843.2	840.7	838.3	835.9	835.9	835.9	833.5	828.7	828.7	823.8
7.5°	848.0	848.0	848.0	848.0	848.0	848.0	848.0	845.6	843.2	840.7	835.9
10°	850.4	850.4	852.8	852.8	857.7	860.1	860.1	862.5	860.1	855.2	850.4
12.5°	857.7	860.1	860.1	862.5	869.7	872.2	874.6	881.8	881.8	877.0	872.2
15°	872.2	872.2	874.6	879.4	889.1	891.5	898.7	906.0	910.8	906.0	901.1
17.5°	915.6	915.6	915.6	915.6	920.5	922.9	932.5	944.6	949.5	949.5	947.0
20°	1002.6	1002.6	997.8	988.1	983.3	983.3	980.9	985.7	995.4	1002.6	1005.0
22.5°	1101.7	1099.2	1096.8	1082.3	1065.4	1060.6	1055.8	1050.9	1055.8	1067.8	1072.7
25°	1179.0	1181.4	1179.0	1159.6	1145.2	1142.7	1135.5	1137.9	1137.9	1140.3	1147.6
27.5°	1241.8	1246.6	1237.0	1227.3	1217.6	1210.4	1215.2	1222.5	1234.5	1229.7	1244.2
30°	1311.8	1309.4	1299.8	1287.7	1280.4	1278.0	1275.6	1302.2	1336.0	1350.5	1367.4
32.5°	1437.5	1435.1	1415.7	1355.3	1338.4	1338.4	1343.3	1377.1	1430.2	1476.1	1519.6
35°	1553.4	1553.4	1529.3	1488.2	1415.7	1394.0	1406.1	1447.1	1524.5	1616.3	1686.3
37.5°	1691.2	1693.6	1667.0	1604.2	1546.2	1524.5	1466.5	1524.5	1618.7	1795.0	1882.0
40°	1850.6	1845.8	1802.3	1734.6	1659.7	1642.8	1594.5	1606.6	1739.5	2005.2	2089.8
42.5°	1940.0	1935.2	1906.2	1853.0	1792.6	1773.3	1729.8	1717.7	1901.3	2237.2	2292.7
45°	2027.0	2031.8	2029.4	2002.8	1988.3	1976.2	1952.1	1954.5	2101.9	2466.7	2469.1
47.5°	2077.7	2087.4	2048.7	2046.3	2048.7	2048.7	2082.5	2150.2	2292.7	2662.4	2623.7
50°	2227.5	2217.8	2099.4	2104.3	2135.7	2150.2	2213.0	2312.0	2558.5	2831.5	2756.6
52.5°	2529.5	2461.8	2312.0	2239.6	2251.6	2287.9	2362.8	2505.3	2824.2	2998.2	2875.0
55°	2867.7	2838.7	2684.1	2498.1	2415.9	2461.8	2541.6	2691.3	3034.4	3140.7	2974.0
57.5°	3102.1	3114.1	3119.0	2969.2	2681.7	2696.2	2746.9	2877.4	3222.8	3285.7	3048.9
60°	3329.2	3346.1	3437.9	3416.1	3321.9	3215.6	3017.5	3061.0	3384.7	3389.5	3106.9
62.5°	3510.3	3520.0	3667.4	3735.0	3904.1	3911.4	3590.1	3314.7	3549.0	3464.4	3128.6
65°	3418.5	3445.1	3660.1	3865.5	4346.3	4399.4	4273.8	3638.4	3674.6	3498.3	3114.1
67.5°	3109.3	3152.8	3355.7	3826.8	4621.7	4657.9	4546.8	4225.5	3720.5	3486.2	3034.4
70°	2679.3	2698.6	2930.5	3517.6	4672.4	4689.3	4551.6	4348.7	3689.1	3416.1	2867.7
72.5°	2179.2	2200.9	2401.4	3024.7	4442.9	4457.4	4421.2	4252.0	3614.2	3285.7	2529.5
75°	1635.6	1669.4	1860.3	2362.8	3923.5	4046.7	4121.6	4049.1	3406.5	2853.2	1925.5
77.5°	1079.9	1082.3	1275.6	1785.4	3109.3	3232.5	3244.6	3184.2	2418.3	1790.2	855.2
80°	463.9	507.3	746.5	1198.3	2065.6	2087.4	2111.5	1952.1	1239.4	553.2	94.2
82.5°	154.6	171.5	314.1	633.0	1017.1	1041.3	997.8	864.9	347.9	74.9	53.2
85°	65.2	72.5	96.6	173.9	246.4	224.7	210.2	171.5	48.3	43.5	33.8
87.5°	2.4	2.4	2.4	2.4	4.8	2.4	4.8	4.8	7.2	7.2	9.7
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°	819.0	819.0	819.0	819.0	819.0	819.0	819.0	819.0	819.0	819.0	819.0
2.5°	819.0	819.0	819.0	816.6	816.6	814.2	814.2	811.8	811.8	811.8	811.8
5°	823.8	823.8	819.0	816.6	811.8	806.9	802.1	797.3	792.4	792.4	792.4
7.5°	833.5	831.1	823.8	814.2	804.5	792.4	785.2	775.5	770.7	765.8	768.3
10°	848.0	843.2	833.5	819.0	799.7	780.3	763.4	748.9	741.7	734.4	732.0
12.5°	867.3	862.5	848.0	826.2	797.3	768.3	741.7	719.9	705.5	698.2	695.8
15°	896.3	889.1	869.7	838.3	797.3	753.8	717.5	686.1	662.0	647.5	647.5
17.5°	942.2	935.0	908.4	864.9	806.9	746.5	691.0	637.8	606.4	589.5	587.1
20°	1002.6	992.9	961.5	898.7	823.8	744.1	662.0	594.3	541.2	512.2	509.8
22.5°	1072.7	1065.4	1017.1	935.0	840.7	739.3	640.2	550.8	475.9	422.8	410.7
25°	1154.8	1142.7	1070.3	964.0	845.6	727.2	608.8	504.9	401.0	335.8	323.7
27.5°	1251.5	1224.9	1118.6	985.7	843.2	703.0	572.6	439.7	304.4	256.1	248.8
30°	1355.3	1309.4	1166.9	1000.2	828.7	664.4	509.8	328.6	219.8	190.9	183.6
32.5°	1473.7	1401.2	1210.4	1002.6	797.3	611.2	403.5	224.7	157.0	140.1	137.7
35°	1616.3	1517.2	1256.3	992.9	751.4	524.3	280.2	152.2	116.0	111.1	111.1
37.5°	1802.3	1664.6	1307.0	964.0	681.3	405.9	186.0	103.9	101.5	103.9	103.9
40°	1998.0	1833.7	1369.8	920.5	591.9	292.3	118.4	96.6	96.6	99.1	99.1
42.5°	2184.0	1995.6	1449.6	862.5	490.4	188.4	96.6	91.8	89.4	91.8	94.2
45°	2341.0	2147.8	1526.9	799.7	374.5	120.8	94.2	87.0	82.1	84.6	84.6
47.5°	2481.2	2263.7	1570.4	724.8	263.3	94.2	94.2	79.7	74.9	74.9	77.3
50°	2599.5	2355.5	1594.5	637.8	166.7	91.8	84.6	74.9	70.1	70.1	67.6
52.5°	2698.6	2423.2	1592.1	541.2	108.7	89.4	79.7	70.1	62.8	65.2	65.2
55°	2773.5	2476.3	1555.9	415.5	91.8	84.6	77.3	65.2	60.4	65.2	65.2
57.5°	2831.5	2500.5	1488.2	289.9	89.4	77.3	72.5	60.4	55.6	58.0	58.0
60°	2860.5	2488.4	1381.9	181.2	87.0	74.9	67.6	55.6	50.7	48.3	50.7
62.5°	2850.8	2444.9	1229.7	120.8	82.1	70.1	62.8	53.2	45.9	41.1	41.1
65°	2792.8	2348.3	1048.5	101.5	79.7	70.1	60.4	50.7	41.1	38.7	38.7
67.5°	2662.4	2147.8	777.9	94.2	79.7	67.6	58.0	48.3	41.1	36.2	36.2
70°	2394.2	1787.8	374.5	87.0	79.7	70.1	58.0	45.9	38.7	33.8	33.8
72.5°	1937.6	1263.5	96.6	74.9	77.3	70.1	60.4	45.9	36.2	31.4	31.4
75°	1263.5	606.4	82.1	60.4	70.1	65.2	58.0	45.9	36.2	29.0	29.0
77.5°	410.7	84.6	74.9	53.2	62.8	62.8	58.0	45.9	36.2	26.6	26.6
80°	65.2	60.4	65.2	41.1	45.9	53.2	45.9	43.5	33.8	24.2	24.2
82.5°	45.9	55.6	48.3	33.8	41.1	43.5	36.2	29.0	24.2	21.7	21.7
85°	33.8	36.2	29.0	26.6	31.4	36.2	29.0	21.7	19.3	19.3	19.3
87.5°	12.1	14.5	14.5	19.3	24.2	26.6	16.9	12.1	14.5	14.5	14.5
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)