

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: P233716

Luminaire Tested: **VERD-C018-D-U-T3-8027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233716
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-33)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-C018-D-U-T3-8027-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 1210mA LED AND TYPE III OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4855 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Medium - Semi-Cutoff
BUG Rating: B1 - U0 - G1

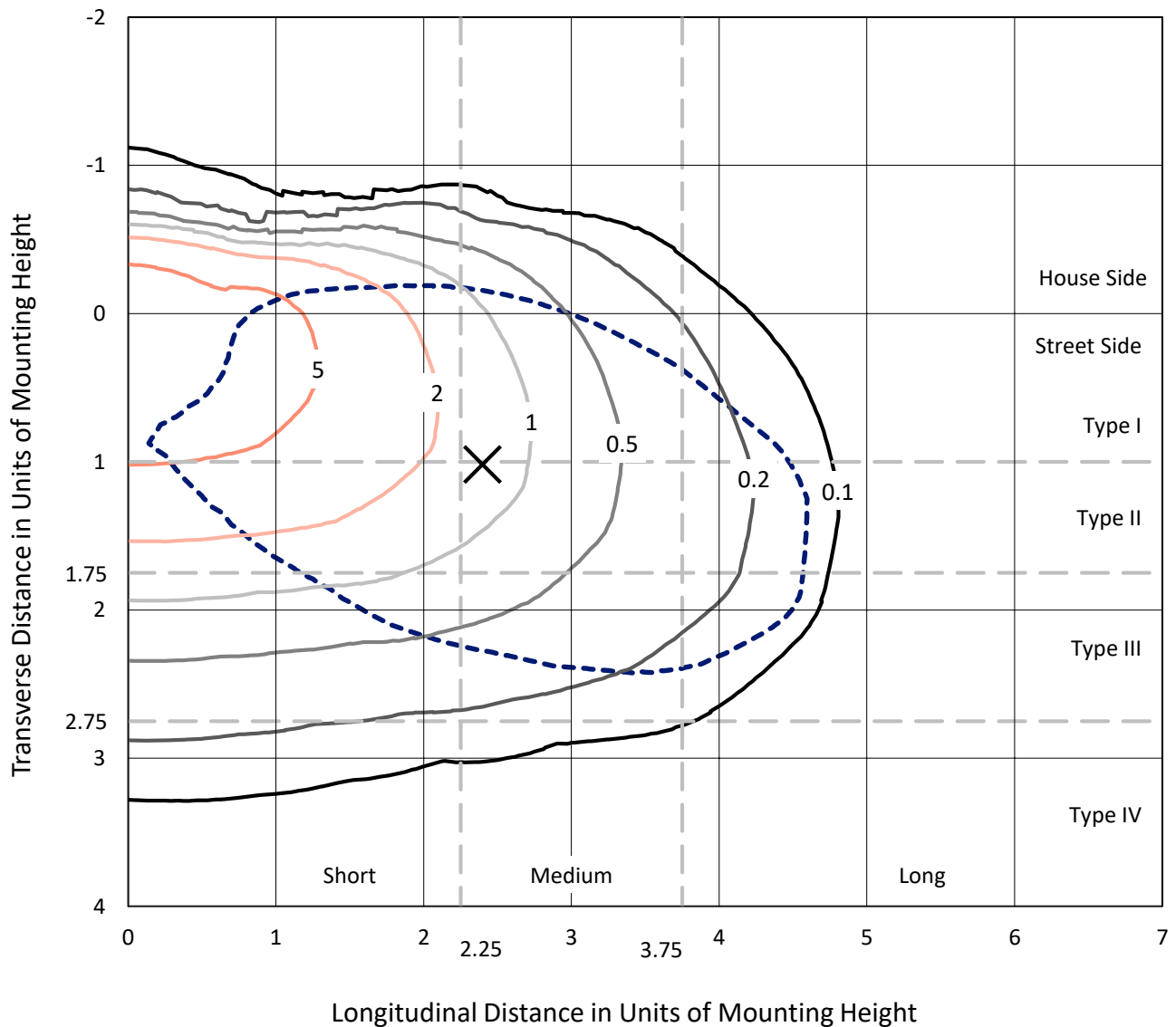
Input Watts (W): 50
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

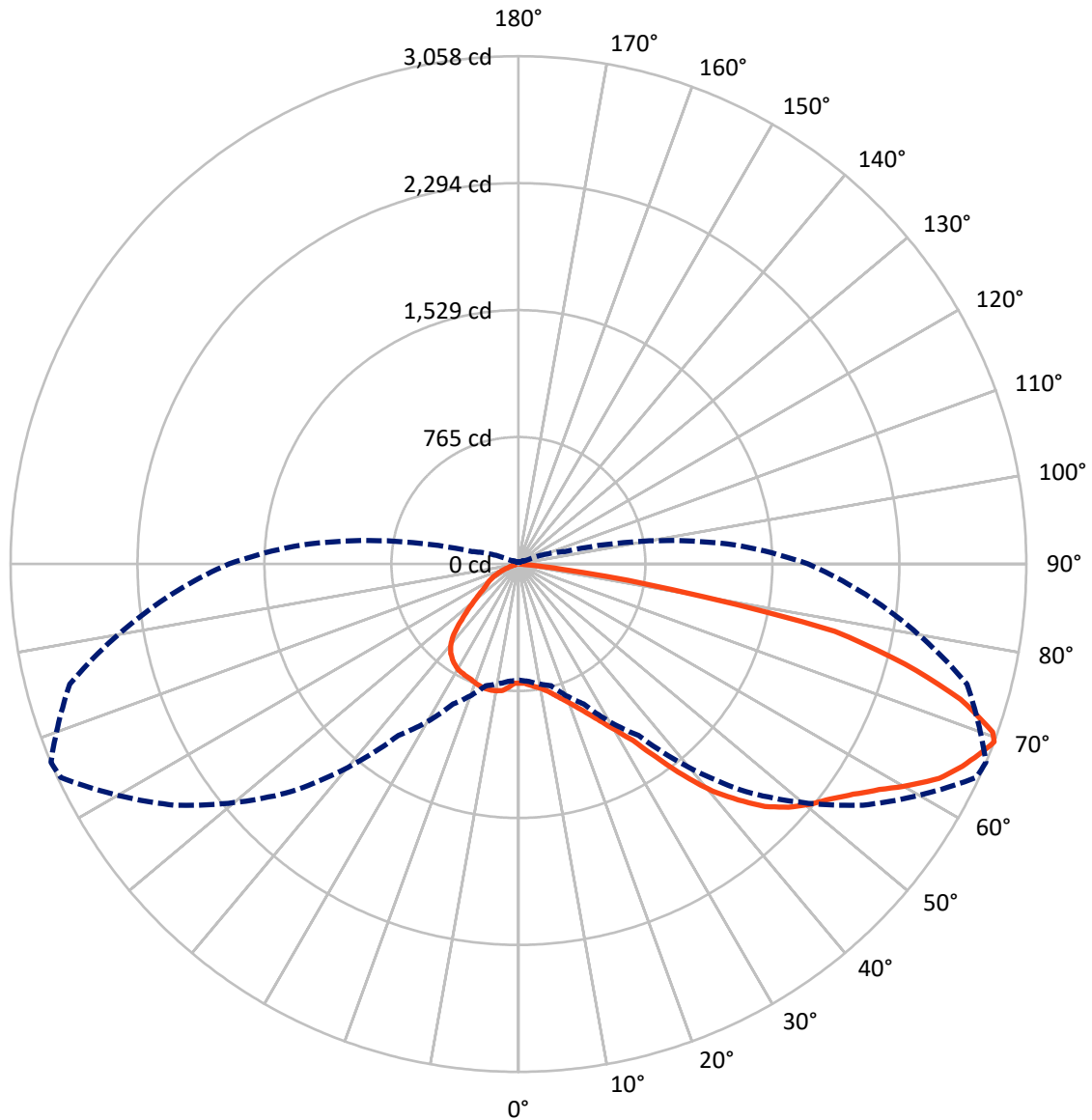
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.8 fc
 Type III - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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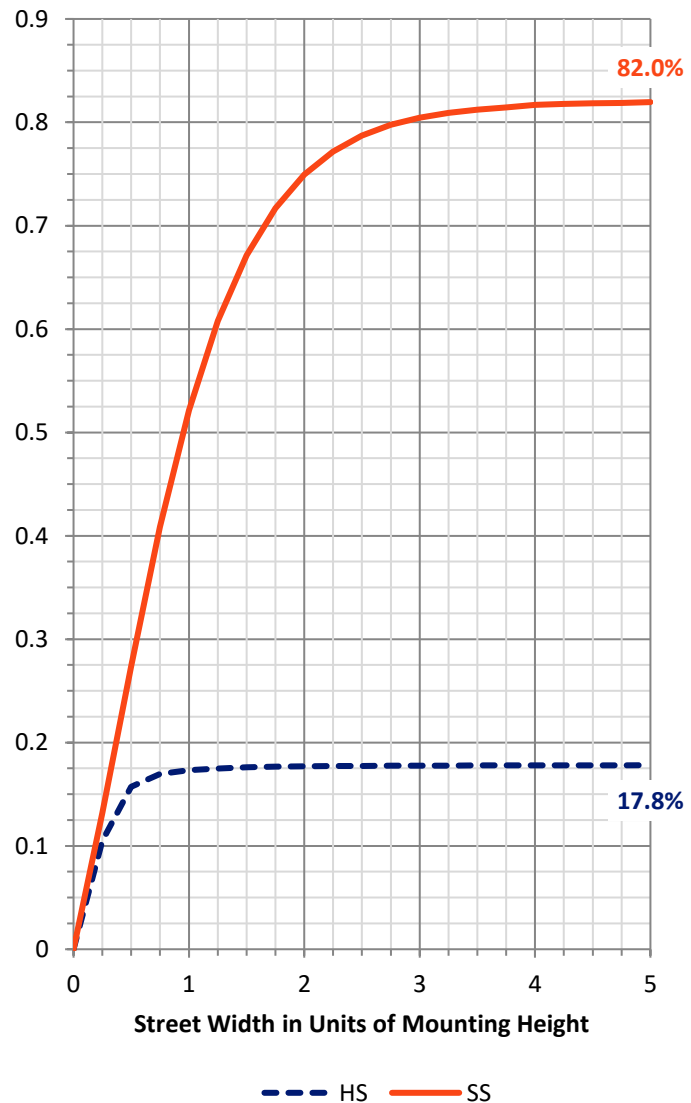
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	875.2	0.0	875.2
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	3979.8	0.0	3979.8
	% Fixture	82.0	0.0	82.0
Total	Lumens	4855.0	0.0	4855.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.5	1.5
10°-20°	227.9	4.7
20°-30°	389.0	8.0
30°-40°	588.2	12.1
40°-50°	831.0	17.1
50°-60°	1004.2	20.7
60°-70°	1059.7	21.8
70°-80°	637.9	13.1
80°-90°	44.6	0.9
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°	4855.0	100.0
0°-180°	4855.0	100.0

Coefficient of Utilization



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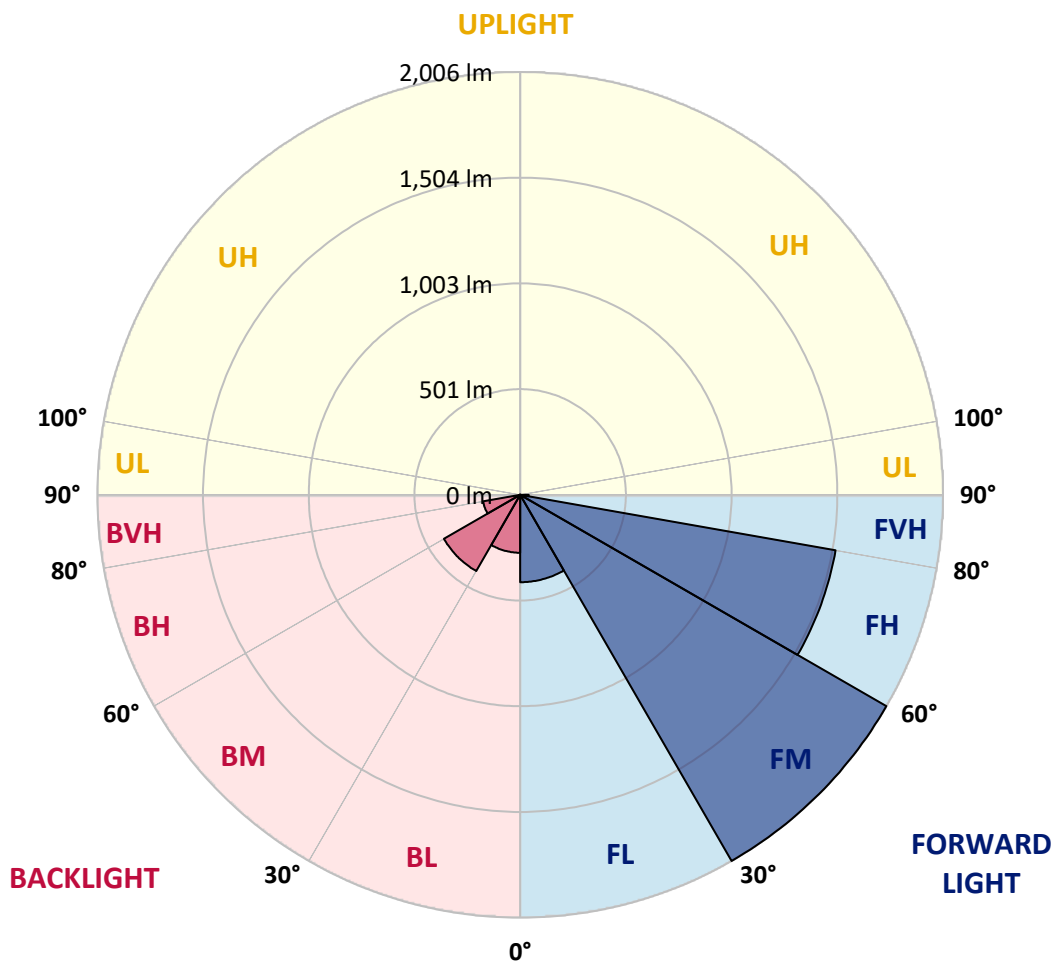
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	414.6	8.5			
FM	(30°-60°)	2005.8	41.3			
FH	(60°-80°)	1519.1	31.3			G1/1800
FVH	(80°-90°)	40.3	0.8			G1/100
BL	(0°-30°)	274.9	5.7	B1/500		
BM	(30°-60°)	417.6	8.6	B1/1000		
BH	(60°-80°)	178.4	3.7	B1/500		G1/500
BVH	(80°-90°)	4.3	0.1			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	718.0	718.0	718.0	718.0	718.0	718.0	718.0	718.0	718.0	718.0	718.0
2.5°	736.5	735.4	735.4	728.8	722.6	721.1	720.7	718.8	719.1	716.4	713.7
5°	757.8	757.8	757.1	748.5	742.0	737.7	735.0	731.5	731.9	730.0	727.7
7.5°	789.9	790.3	788.8	777.6	771.0	760.5	754.3	747.8	747.4	745.1	745.8
10°	829.4	830.6	828.2	813.9	802.7	788.4	775.2	763.6	762.9	760.1	762.5
12.5°	873.9	875.4	869.6	854.9	842.2	819.7	803.9	788.4	786.1	785.7	787.2
15°	924.9	925.7	923.8	902.1	886.6	866.1	840.2	820.5	818.2	818.6	816.6
17.5°	981.8	983.7	979.5	960.1	939.6	911.4	880.5	856.1	854.9	853.8	845.3
20°	1042.2	1044.1	1041.4	1023.2	998.8	963.2	925.3	897.5	897.1	894.4	874.7
22.5°	1110.2	1112.9	1111.4	1089.4	1063.4	1024.7	977.6	948.5	947.8	939.3	909.5
25°	1184.1	1183.4	1184.9	1161.3	1136.9	1096.3	1037.9	1007.7	1007.7	997.3	953.2
27.5°	1255.7	1255.3	1258.0	1241.4	1215.8	1177.6	1107.1	1076.6	1079.3	1064.2	1005.8
30°	1325.3	1325.3	1331.9	1321.1	1302.1	1261.9	1193.0	1160.9	1164.4	1148.5	1072.3
32.5°	1390.3	1393.4	1404.6	1398.1	1383.7	1347.4	1288.6	1259.2	1267.3	1273.9	1196.1
35°	1438.3	1441.4	1467.3	1469.6	1466.1	1441.8	1398.1	1417.0	1426.7	1478.5	1391.9
37.5°	1480.4	1484.3	1515.3	1534.6	1545.8	1530.7	1533.4	1596.9	1615.1	1676.2	1559.0
40°	1511.4	1519.9	1550.5	1577.2	1616.6	1634.4	1678.5	1768.6	1798.0	1822.4	1673.9
42.5°	1490.1	1495.9	1549.7	1621.3	1678.9	1741.6	1813.1	1920.3	1942.3	1934.6	1775.2
45°	1458.8	1465.7	1522.2	1632.9	1728.4	1853.4	1940.8	2056.8	2082.0	2039.1	1862.7
47.5°	1423.6	1433.3	1494.4	1617.4	1769.8	1956.3	2056.5	2174.1	2188.8	2132.3	1936.2
50°	1388.0	1398.8	1468.1	1604.6	1801.9	2042.1	2140.8	2269.6	2273.9	2209.6	2002.3
52.5°	1340.0	1351.2	1427.1	1577.9	1824.4	2098.6	2214.7	2348.1	2350.8	2293.2	2065.0
55°	1279.3	1293.6	1373.7	1538.5	1829.8	2131.5	2261.5	2429.8	2447.9	2383.7	2116.4
57.5°	1207.7	1220.9	1309.1	1481.6	1802.7	2142.7	2326.9	2537.7	2562.8	2475.4	2159.0
60°	1125.3	1140.4	1229.0	1408.1	1748.1	2174.1	2435.2	2690.1	2705.2	2571.3	2196.5
62.5°	1041.0	1051.8	1132.3	1304.8	1663.0	2193.0	2531.1	2833.2	2843.3	2663.8	2218.9
65°	921.1	934.6	1013.1	1186.4	1540.4	2156.7	2567.9	2931.1	2937.3	2741.2	2208.1
67.5°	790.7	801.5	858.8	1043.7	1379.5	2041.4	2552.8	2996.5	3016.2	2801.5	2159.0
69°	698.3	709.1	758.6	929.6	1259.9	1939.2	2531.5	3041.0	3058.4	2797.3	2096.3
70°	626.3	637.1	683.9	844.5	1166.3	1853.0	2497.8	3018.5	3029.8	2749.7	2035.2
72.5°	448.0	458.8	497.1	593.8	883.6	1523.0	2289.3	2769.4	2784.5	2521.1	1818.9
75°	234.4	260.3	329.2	383.7	523.4	1072.3	1903.3	2381.8	2403.8	2212.4	1495.9
77.5°	30.2	31.7	92.8	155.9	216.2	452.2	1352.0	1912.6	1947.4	1770.6	1034.4
80°	24.4	24.8	32.1	77.8	107.5	183.4	479.7	895.2	937.3	786.8	380.3
82.5°	17.0	17.8	25.1	41.0	35.2	66.9	166.7	253.0	260.7	225.5	151.6
85°	9.7	9.7	12.0	15.9	11.2	25.1	34.4	36.8	32.9	32.5	24.4
87.5°	2.7	3.1	3.5	2.7	1.2	1.2	1.5	1.5	1.5	1.2	1.2
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°	718.0	718.0	718.0	718.0	718.0	718.0	718.0	718.0	718.0	718.0	718.0
2.5°	718.0	717.2	717.6	719.1	721.5	730.0	735.8	736.5	739.3	749.3	748.2
5°	730.4	735.0	737.7	745.8	751.2	762.9	769.8	770.6	774.5	784.9	785.3
7.5°	747.8	755.5	759.4	768.7	770.6	776.0	777.9	776.0	776.4	785.7	786.5
10°	762.9	772.5	772.5	774.8	771.4	771.8	765.6	759.8	756.7	764.8	766.7
12.5°	786.1	788.8	782.6	775.6	765.2	755.9	745.4	736.2	728.8	733.5	730.7
15°	810.1	805.8	790.7	772.5	754.0	738.1	716.4	702.9	690.1	692.8	690.5
17.5°	834.0	820.1	796.5	766.3	739.3	709.1	678.9	657.6	634.4	632.5	629.0
20°	857.2	837.1	798.1	753.6	715.7	673.1	626.3	589.9	555.5	546.6	540.8
22.5°	885.1	856.1	800.0	741.2	690.1	632.1	561.3	504.8	467.7	455.3	449.5
25°	920.7	882.4	805.4	731.9	664.2	581.4	484.3	419.7	379.5	358.2	356.3
27.5°	962.9	914.1	814.7	719.9	627.5	513.7	404.6	337.3	294.4	272.7	265.8
30°	1018.2	953.6	823.2	710.6	575.6	439.8	321.1	246.0	195.0	181.0	173.7
32.5°	1123.0	1017.8	834.0	689.0	514.5	359.0	227.5	151.6	116.8	107.5	107.5
35°	1293.6	1159.0	861.1	659.2	441.0	261.5	136.6	85.1	69.6	64.2	61.5
37.5°	1447.6	1301.3	928.8	613.1	351.6	154.7	78.1	52.6	47.6	48.4	48.4
40°	1556.3	1398.8	1003.5	550.9	238.7	82.8	49.5	42.2	42.9	43.3	43.3
42.5°	1649.5	1482.0	1044.5	477.0	130.0	53.8	42.6	38.3	39.5	39.1	38.7
45°	1727.6	1549.7	1058.0	375.2	63.1	47.6	38.7	35.2	35.2	34.8	34.8
47.5°	1794.6	1609.7	1032.9	278.9	51.1	43.7	36.8	32.5	32.1	34.0	34.0
50°	1855.7	1656.1	970.2	211.2	49.5	40.2	34.8	30.2	30.6	33.3	33.3
52.5°	1906.8	1683.5	877.4	158.2	46.0	37.1	32.1	28.2	28.2	30.9	30.9
55°	1944.7	1683.5	806.6	118.4	44.1	34.0	29.8	27.1	25.5	26.3	26.7
57.5°	1963.6	1651.8	749.7	95.9	41.8	30.9	27.5	23.6	20.9	21.7	21.3
60°	1958.6	1633.6	684.3	85.5	39.1	28.6	24.4	20.1	17.4	16.6	16.6
62.5°	1949.3	1613.1	602.7	74.3	36.4	26.7	20.1	16.2	14.7	13.9	14.3
65°	1914.1	1546.6	499.4	61.9	33.7	25.9	17.0	14.3	12.8	12.0	12.0
67.5°	1829.0	1426.7	377.6	52.2	31.3	20.9	14.7	12.4	10.8	10.1	10.1
69°	1744.7	1312.2	289.7	47.6	29.8	19.0	13.5	11.2	10.1	8.9	8.9
70°	1671.9	1223.6	227.1	44.5	28.6	18.2	13.2	10.8	9.7	8.5	8.5
72.5°	1423.6	970.6	115.3	38.7	24.0	15.9	11.6	9.7	8.1	7.0	7.0
75°	1104.4	668.9	76.2	30.6	18.6	14.3	10.4	8.5	7.0	5.8	5.4
77.5°	664.6	261.5	54.5	19.7	12.0	11.2	8.5	7.0	5.8	4.6	4.6
80°	183.4	112.2	36.8	13.2	7.0	7.4	6.2	5.0	4.3	3.5	3.5
82.5°	110.3	72.7	24.4	8.5	4.6	4.6	3.5	3.5	2.7	2.7	2.7
85°	19.0	14.7	5.8	3.5	2.7	2.7	1.9	1.2	1.2	1.2	1.2
87.5°	1.2	1.2	1.2	1.5	1.5	1.2	0.8	0.4	0.0	0.0	0.0
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)