

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: P233559

Luminaire Tested: **VERD-C016-D-U-T4-8027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233559  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-15)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-C016-D-U-T4-8027  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(1) 80 CRI, 2700K, 950mA LED AND TYPE IV OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4228 lumens  
Efficiency: N/A  
Efficacy: 108.4 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 39  
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

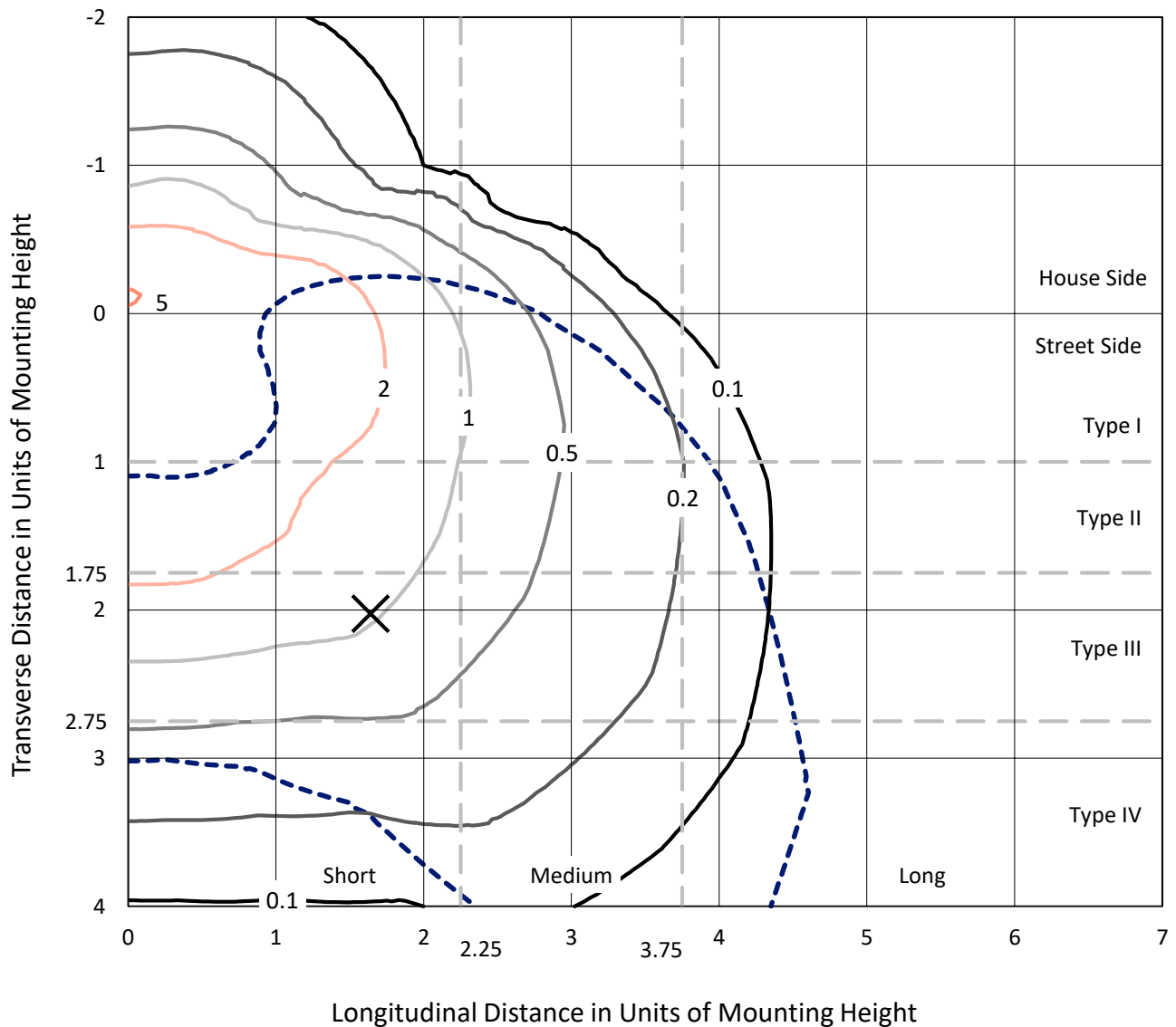


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

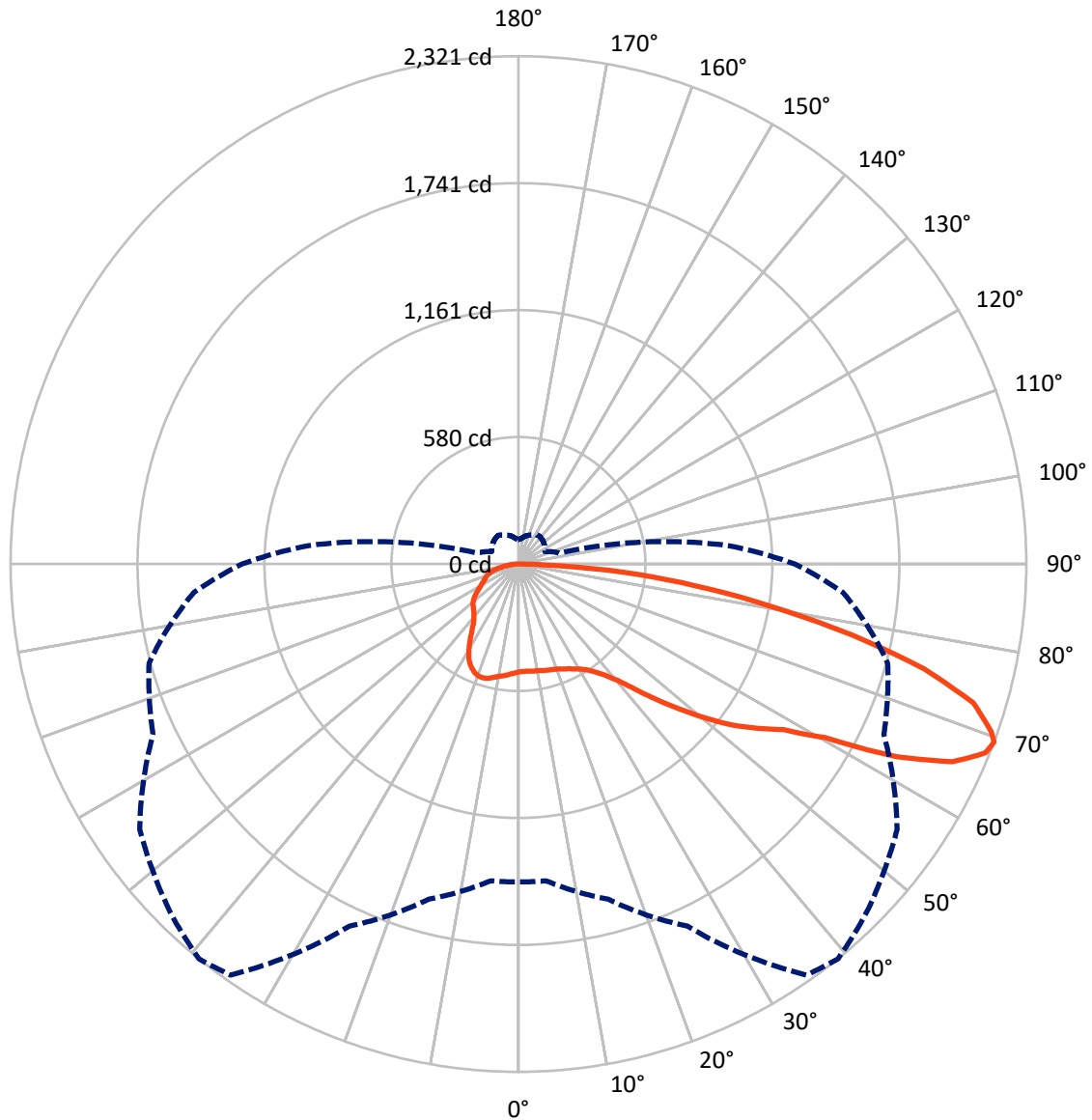


Based on 10 foot mounting height. Maximum calculated value = 5.1 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical



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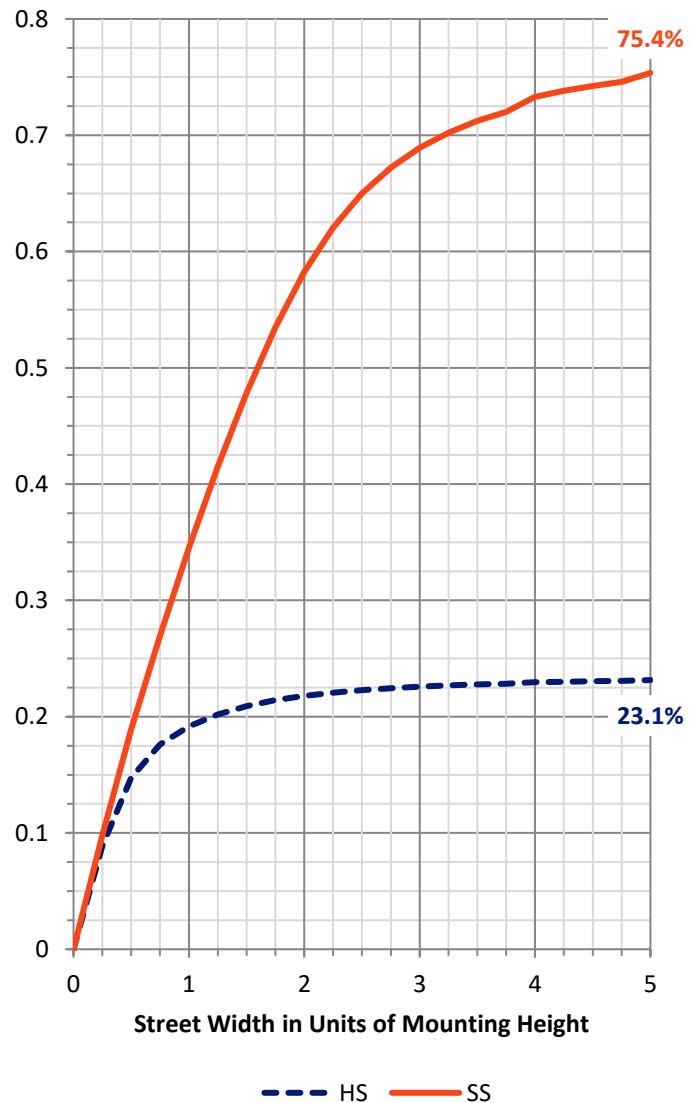
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	991.1	0.0	991.1
	% Fixture	23.4	0.0	23.4
<b>Street Side</b>	Lumens	3236.9	0.0	3236.9
	% Fixture	76.6	0.0	76.6
<b>Total</b>	Lumens	4228.0	0.0	4228.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.9	1.1
10°-20°	147.9	3.5
20°-30°	249.0	5.9
30°-40°	360.8	8.5
40°-50°	583.1	13.8
50°-60°	853.7	20.2
60°-70°	1068.5	25.3
70°-80°	763.9	18.1
80°-90°	153.2	3.6
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°	4228.0	100.0
0°-180°	4228.0	100.0



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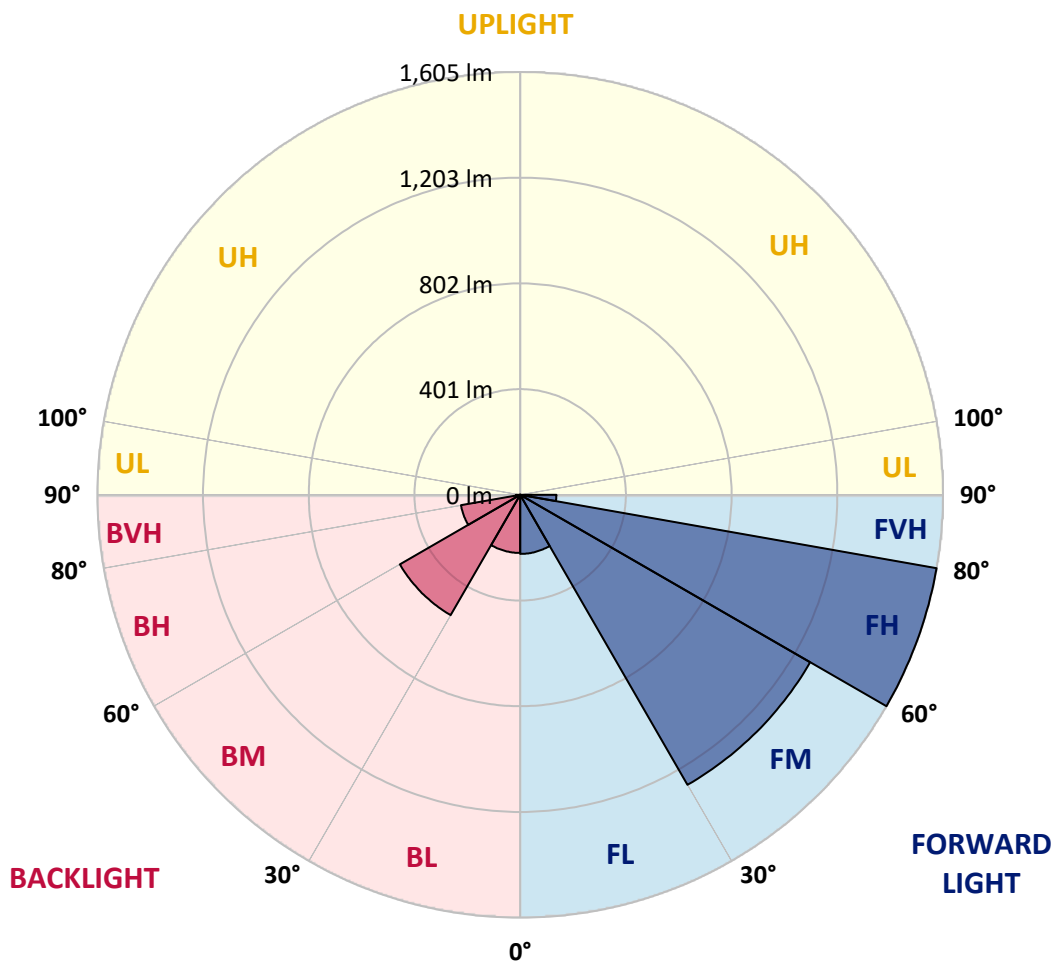
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	224.3	5.3			
FM	(30°-60°)	1270.6	30.1			
FH	(60°-80°)	1604.5	37.9			G1/1800
FVH	(80°-90°)	137.5	3.3			G2/225
BL	(0°-30°)	220.5	5.2	B1/500		
BM	(30°-60°)	527.1	12.5	B1/1000		
BH	(60°-80°)	227.9	5.4	B1/500		G1/500
BVH	(80°-90°)	15.7	0.4			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°	39°	45°	55°	65°	75°	85°
0°	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5
2.5°	501.1	500.3	498.7	492.5	491.7	491.3	492.1	489.8	489.4	490.1	489.4
5°	501.4	500.7	498.7	493.3	492.5	491.7	492.1	490.1	490.5	492.5	492.5
7.5°	502.2	501.4	499.5	493.6	495.2	494.4	496.0	493.3	493.3	494.8	495.2
10°	500.3	499.9	498.7	494.4	496.8	495.2	496.8	497.2	498.7	499.9	499.5
12.5°	495.2	495.2	495.2	493.3	499.9	499.5	502.2	504.9	508.8	510.8	512.0
15°	492.1	491.7	494.4	494.0	502.2	503.4	508.1	515.1	520.9	526.0	527.5
17.5°	495.2	495.2	498.7	497.9	506.1	506.9	512.0	522.1	531.8	541.6	545.9
20°	498.7	499.1	503.4	504.6	512.4	512.0	517.0	529.5	542.7	557.2	564.6
22.5°	509.6	509.2	512.7	510.4	519.4	520.9	525.2	536.1	554.8	573.1	585.2
25°	517.8	519.0	522.5	520.9	528.3	530.3	537.3	547.8	570.0	591.8	613.3
27.5°	525.6	527.9	530.7	530.3	540.4	542.7	548.2	564.6	590.3	616.4	646.4
30°	537.3	536.5	538.5	542.0	555.2	556.8	563.4	583.3	614.4	648.3	688.5
32.5°	552.9	552.1	554.0	557.2	573.1	577.0	586.0	607.4	646.8	687.7	736.8
35°	577.4	579.4	580.9	584.8	600.4	605.9	617.9	645.2	690.8	756.3	826.4
37.5°	662.7	658.5	649.9	634.3	638.6	644.8	662.0	700.9	767.2	878.2	942.5
40°	796.0	790.9	764.0	718.5	697.8	699.4	716.1	769.1	859.5	1021.6	1080.8
42.5°	921.5	915.2	883.3	826.4	785.5	780.8	782.4	843.5	960.8	1165.0	1196.5
45°	1039.9	1043.0	994.3	950.7	903.9	882.5	875.9	921.5	1073.4	1289.3	1299.0
47.5°	1153.3	1155.6	1100.7	1058.6	1013.4	988.5	975.6	1011.1	1177.0	1389.8	1380.8
50°	1269.0	1275.2	1200.0	1164.2	1122.5	1104.6	1092.1	1115.5	1291.6	1486.0	1458.3
52.5°	1432.2	1406.1	1307.6	1256.9	1227.3	1221.8	1209.0	1228.1	1413.2	1570.9	1513.3
55°	1613.8	1558.1	1454.5	1366.0	1325.1	1325.1	1313.8	1336.0	1538.6	1634.5	1558.1
57.5°	1672.6	1678.1	1642.2	1546.0	1436.1	1427.6	1416.7	1447.0	1646.1	1691.3	1574.8
60°	1775.5	1790.7	1818.4	1738.1	1683.9	1611.1	1544.8	1561.2	1738.9	1738.1	1592.8
62.5°	1826.5	1841.0	1927.5	1884.2	1935.2	1940.3	1816.4	1690.2	1807.4	1761.5	1601.3
65°	1778.2	1788.4	1903.7	1960.6	2108.6	2179.1	2118.0	1863.6	1843.7	1751.7	1569.4
67.5°	1619.7	1638.7	1734.2	1907.6	2263.3	2302.7	2245.4	2101.6	1859.3	1754.8	1543.7
69°	1452.9	1453.3	1585.8	1826.1	2293.7	2321.0	2250.8	2112.9	1842.9	1747.4	1488.7
70°	1359.0	1368.7	1466.9	1755.6	2282.4	2291.4	2237.6	2112.5	1831.6	1745.1	1436.5
72.5°	1060.5	1055.5	1153.3	1468.1	2154.6	2174.5	2115.2	2052.9	1822.3	1644.6	1215.2
75°	741.4	757.0	852.9	1112.4	1856.5	1916.2	1916.2	1972.3	1677.3	1405.4	878.6
77.5°	551.7	554.0	630.8	849.8	1493.8	1555.8	1612.6	1659.8	1311.1	962.8	392.7
80°	373.6	377.2	447.3	626.9	1106.9	1163.8	1253.8	1142.0	780.0	333.1	44.8
82.5°	235.3	240.0	295.7	440.3	789.0	814.7	842.4	644.8	259.9	38.6	28.4
85°	139.9	140.7	178.4	281.3	481.2	482.7	453.1	296.9	69.7	23.0	17.9
87.5°	58.4	61.6	77.9	124.7	141.0	111.4	69.4	23.8	10.5	9.4	6.2
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°	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5
2.5°	487.0	491.3	490.5	491.7	493.3	496.4	499.9	498.3	500.3	504.6	504.6
5°	491.3	494.8	496.0	498.3	500.3	503.4	505.7	504.9	509.2	515.5	515.5
7.5°	494.8	497.5	501.4	504.2	506.1	512.4	514.7	513.1	516.2	523.6	524.0
10°	499.9	502.6	508.5	511.2	515.1	518.2	521.3	520.9	524.0	530.7	531.8
12.5°	512.4	514.3	522.5	526.4	526.4	530.3	527.9	524.0	525.6	529.5	530.3
15°	528.7	531.4	542.0	543.9	542.0	542.7	537.3	524.8	518.6	519.8	520.1
17.5°	547.4	552.1	564.2	561.4	559.1	553.3	539.2	520.5	501.8	494.8	496.0
20°	567.3	573.1	587.2	581.3	572.7	557.5	534.9	503.0	474.2	457.4	456.6
22.5°	590.3	597.7	610.9	600.8	581.7	555.2	520.5	481.6	444.9	418.8	417.3
25°	621.8	630.0	634.7	614.4	583.3	546.6	499.9	452.3	406.4	375.2	372.9
27.5°	657.7	662.0	652.6	622.2	575.9	528.3	474.2	415.3	364.7	339.0	335.5
30°	697.4	693.9	664.7	618.3	556.8	499.5	434.0	368.2	327.7	307.0	303.9
32.5°	743.4	732.5	674.0	607.4	531.4	461.7	390.4	338.2	305.9	285.2	283.6
35°	819.0	787.8	689.2	590.7	497.9	417.3	350.3	312.5	287.2	261.4	257.5
37.5°	928.5	869.6	711.4	575.1	461.7	374.4	319.9	291.8	269.6	240.8	235.3
40°	1042.2	965.9	748.1	557.9	427.8	342.9	303.1	283.3	261.4	234.2	226.8
42.5°	1146.3	1057.4	790.9	536.5	392.3	317.5	294.9	280.9	259.1	233.4	227.5
45°	1240.6	1143.5	835.0	512.0	353.4	297.3	288.3	276.6	254.4	229.9	225.2
47.5°	1320.0	1216.8	879.4	483.5	316.0	284.8	281.3	268.8	248.2	224.4	220.5
50°	1385.9	1269.4	904.7	453.5	285.2	275.5	271.2	255.6	234.6	212.3	210.0
52.5°	1434.6	1302.1	927.7	437.5	261.0	260.3	257.5	242.3	222.1	199.1	194.4
55°	1468.5	1329.0	917.6	425.1	235.3	241.2	239.6	230.3	213.1	186.2	182.3
57.5°	1470.4	1331.3	895.7	351.0	210.0	218.2	220.9	222.5	203.4	179.6	174.9
60°	1468.5	1314.2	855.2	257.5	185.5	195.2	205.3	205.3	192.1	168.7	165.2
62.5°	1459.5	1280.3	760.9	183.5	166.0	178.8	192.1	186.2	174.9	156.2	152.7
65°	1418.6	1223.8	595.3	149.6	157.8	169.5	175.7	167.5	153.1	133.6	132.1
67.5°	1344.2	1094.4	344.4	137.1	150.8	161.3	166.4	153.9	140.3	121.6	120.8
69°	1262.4	963.5	194.0	134.0	146.5	155.8	160.1	146.5	133.3	115.3	111.8
70°	1189.1	846.6	126.2	131.3	142.2	152.3	155.5	141.4	129.0	110.7	108.3
72.5°	900.8	510.0	84.9	120.0	130.5	138.3	143.0	129.7	115.7	97.4	92.7
75°	492.1	138.7	74.8	102.9	116.1	126.6	127.8	111.0	90.8	72.1	70.1
77.5°	95.8	47.5	64.3	84.9	92.3	104.8	104.0	92.7	78.7	61.2	58.8
80°	36.2	34.3	53.8	60.8	65.1	78.3	83.0	74.8	65.5	41.7	35.8
82.5°	24.5	25.3	40.1	35.8	39.7	46.4	58.4	56.9	51.8	28.4	25.3
85°	17.1	19.9	22.2	15.2	19.5	29.2	38.6	37.4	31.9	19.9	17.9
87.5°	5.1	5.5	6.2	7.8	12.1	21.8	31.6	26.1	17.5	14.8	12.9
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)