

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: LUMARK

Report Number: P233522

Luminaire Tested: **VRDN-C01-D-UNV-T3-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233522  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-14)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: VRDN-C01-D-UNV-T3-7030  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 1230mA LED AND TYPE III OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6951 lumens  
Efficiency: N/A  
Efficacy: 124.1 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 - G2

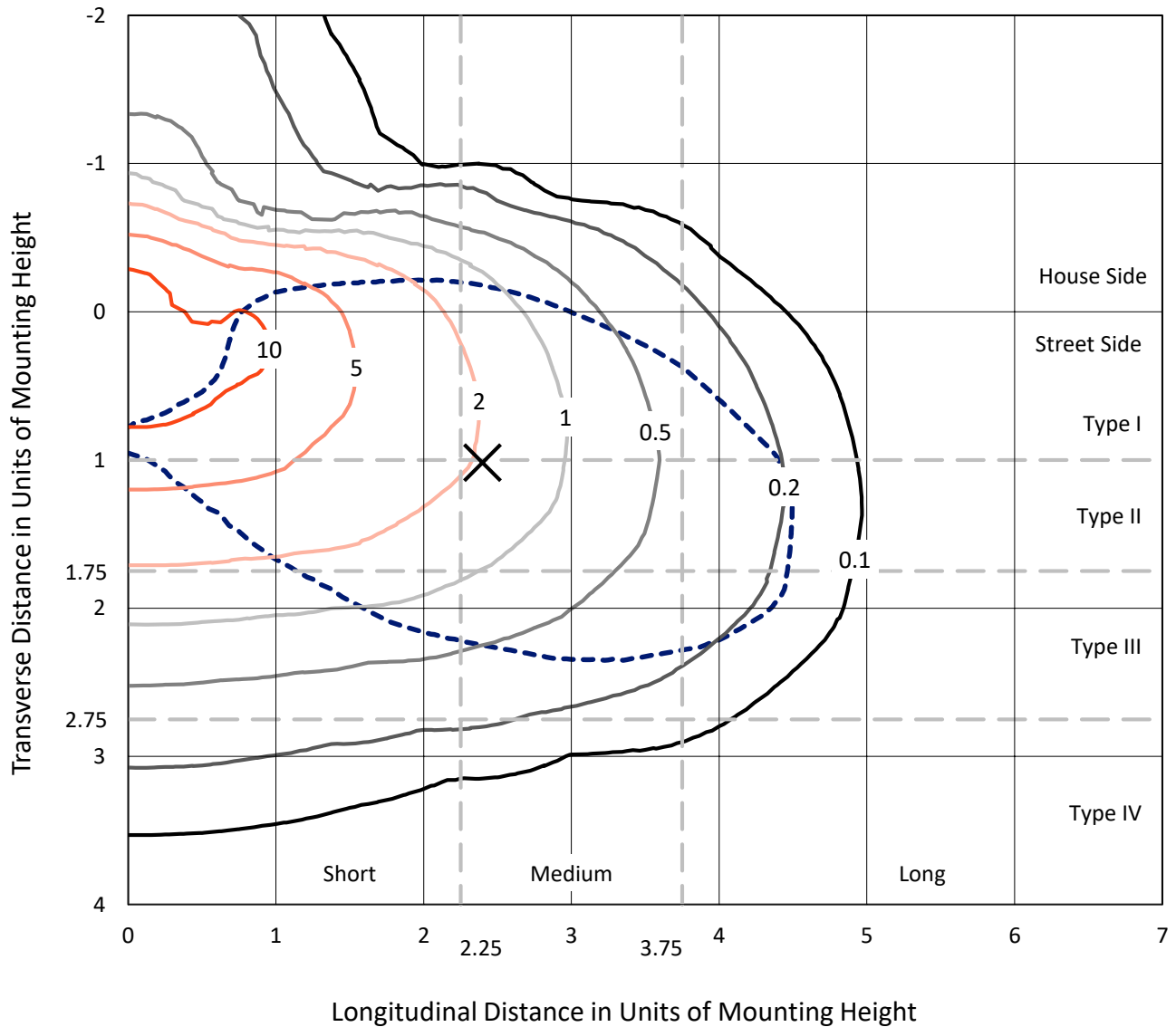
Input Watts (W): 56  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

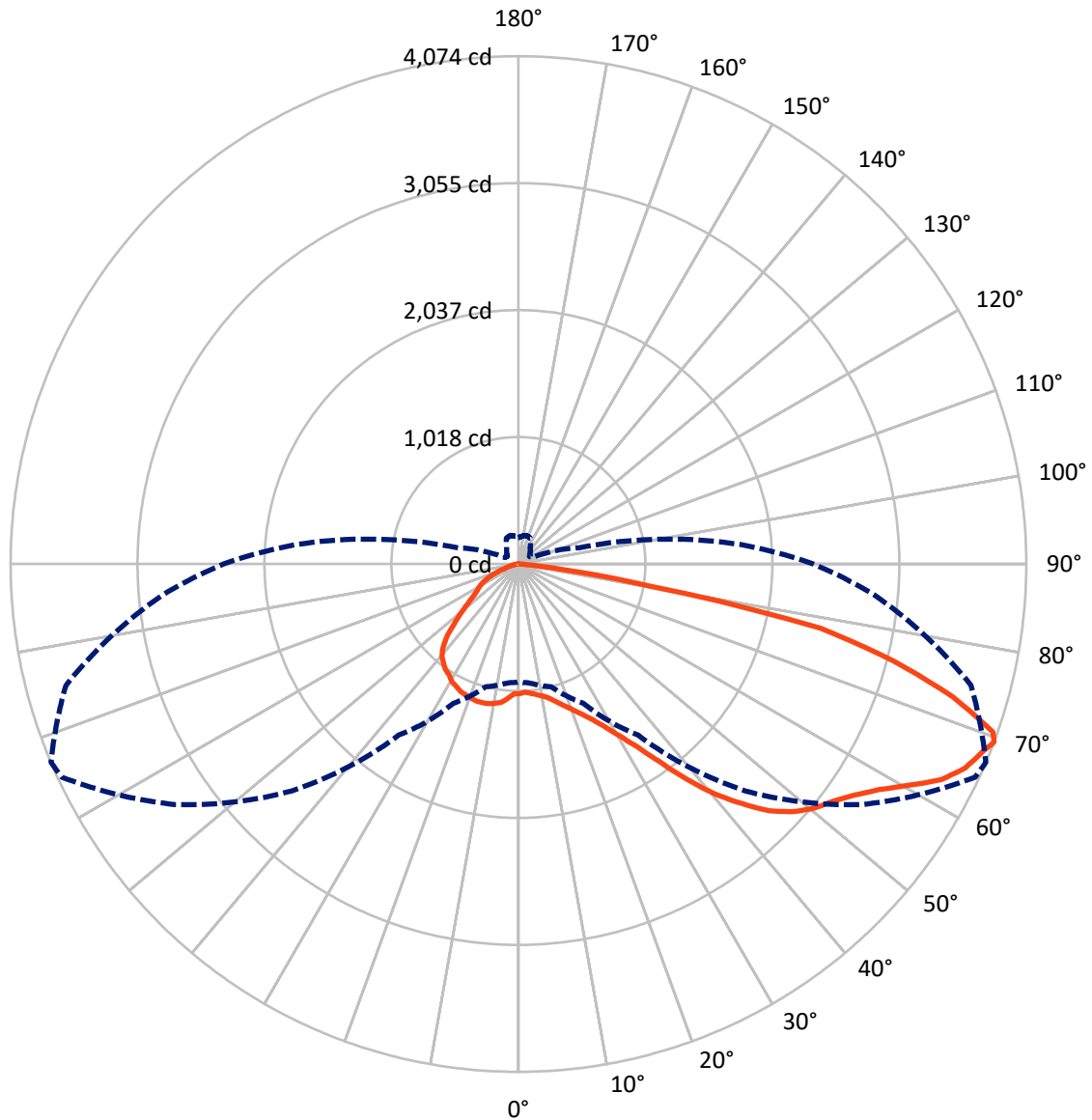
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.1 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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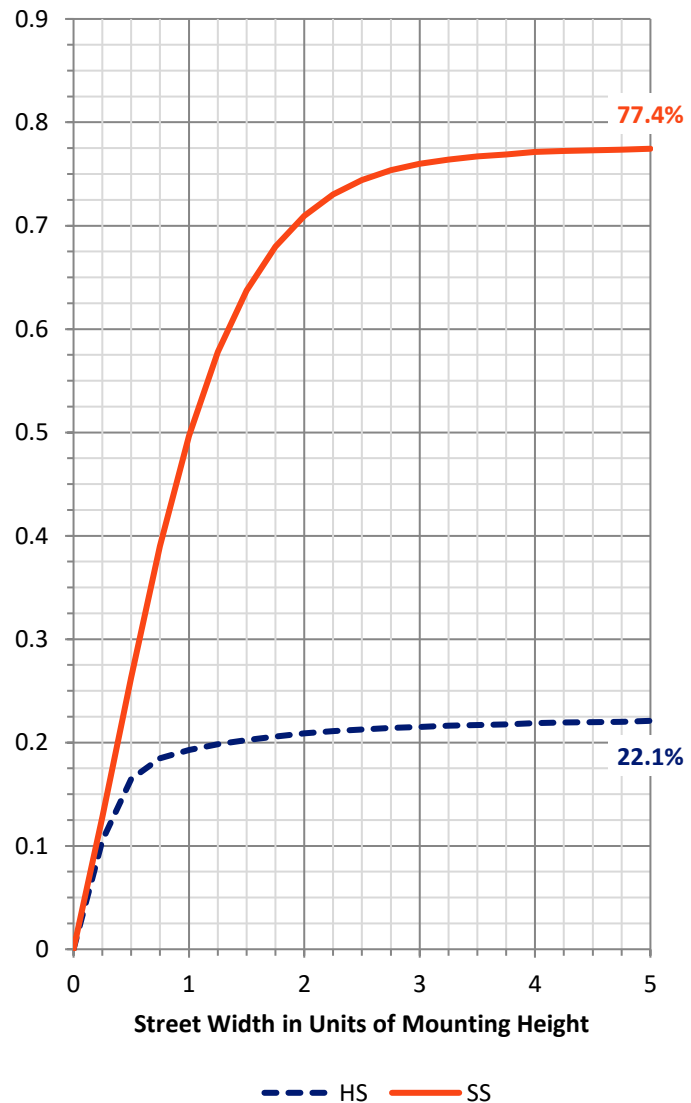
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1565.3	0.0	1565.3
	% Fixture	22.5	0.0	22.5
<b>Street Side</b>	Lumens	5385.7	0.0	5385.7
	% Fixture	77.5	0.0	77.5
<b>Total</b>	Lumens	6951.0	0.0	6951.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.3	1.5
10°-20°	335.6	4.8
20°-30°	578.2	8.3
30°-40°	860.0	12.4
40°-50°	1184.4	17.0
50°-60°	1415.8	20.4
60°-70°	1494.1	21.5
70°-80°	895.3	12.9
80°-90°	82.4	1.2
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°	6951.0	100.0
0°-180°	6951.0	100.0



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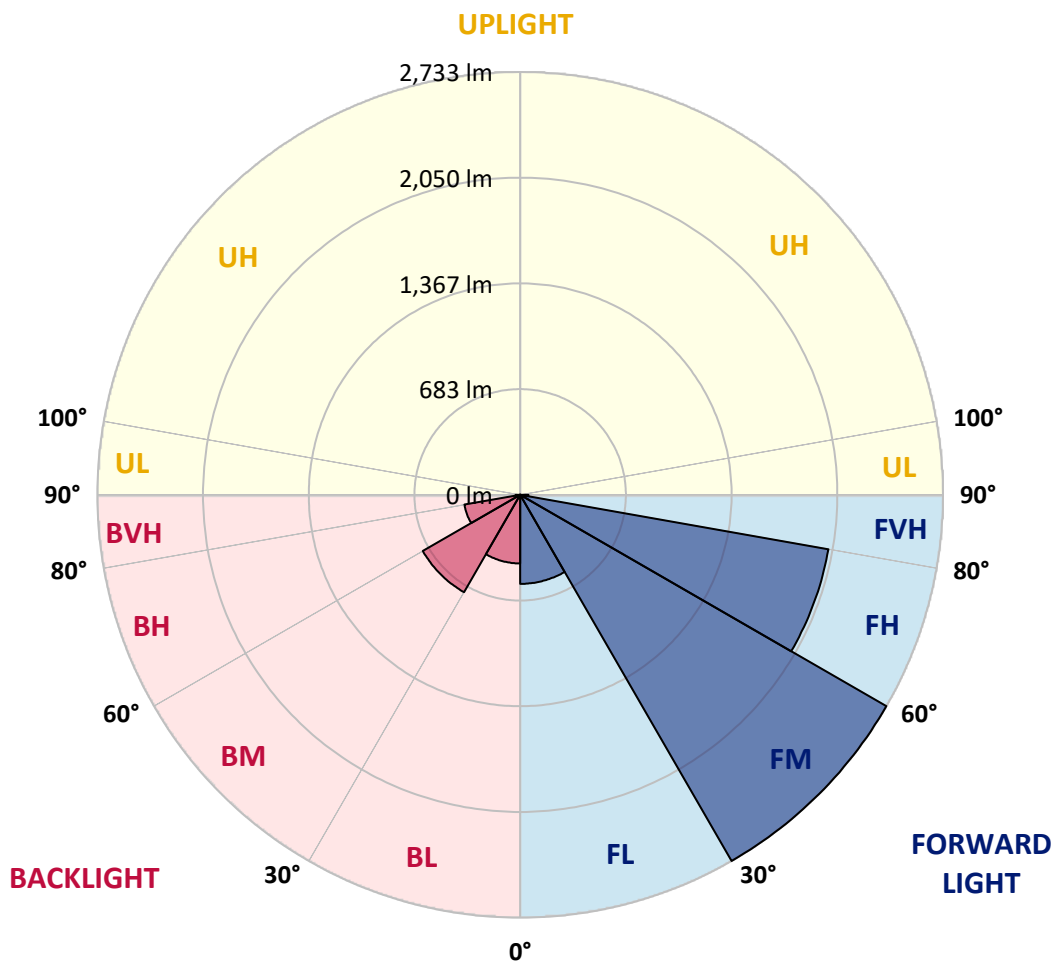
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	575.6	8.3			
FM (30°-60°)	2733.4	39.3			
FH (60°-80°)	2023.4	29.1			G2/5000
FVH (80°-90°)	53.3	0.8			G1/100
BL (0°-30°)	443.5	6.4	B1/500		
BM (30°-60°)	726.7	10.5	B1/1000		
BH (60°-80°)	366.0	5.3	B1/500		G1/500
BVH (80°-90°)	29.1	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1039.7	1039.7	1039.7	1039.7	1039.7	1039.7	1039.7	1039.7	1039.7	1039.7	1039.7
2.5°	1056.8	1056.2	1053.0	1041.6	1040.4	1039.1	1031.5	1032.1	1030.2	1032.1	1032.8
5°	1085.9	1083.3	1080.2	1068.2	1063.7	1058.1	1046.7	1046.0	1041.6	1042.9	1044.2
7.5°	1121.9	1119.4	1116.8	1102.9	1098.5	1088.4	1070.7	1061.8	1058.1	1059.3	1061.2
10°	1170.6	1166.1	1162.3	1142.1	1135.2	1118.1	1096.6	1081.4	1076.4	1078.3	1083.3
12.5°	1226.2	1220.5	1214.2	1193.3	1183.8	1157.3	1132.0	1112.4	1104.8	1109.3	1113.0
15°	1283.7	1280.5	1278.0	1253.4	1240.1	1211.0	1179.4	1154.8	1147.8	1151.6	1153.5
17.5°	1359.5	1357.6	1353.2	1327.9	1302.7	1269.2	1228.1	1202.2	1195.2	1197.1	1192.7
20°	1442.3	1437.3	1434.8	1406.3	1379.8	1333.6	1286.2	1249.6	1247.7	1248.3	1234.4
22.5°	1535.3	1529.6	1524.5	1498.6	1465.7	1412.0	1350.1	1309.0	1310.2	1311.5	1280.5
25°	1630.1	1625.6	1621.2	1596.6	1563.7	1504.9	1430.3	1384.2	1383.6	1384.2	1341.2
27.5°	1729.3	1724.2	1723.6	1703.4	1670.5	1610.5	1524.5	1477.7	1477.7	1475.2	1410.1
30°	1817.8	1822.8	1822.8	1811.5	1780.5	1720.4	1639.5	1592.8	1599.1	1594.0	1511.2
32.5°	1914.5	1913.2	1922.1	1913.2	1887.9	1832.3	1764.7	1735.0	1745.7	1762.2	1679.4
35°	1970.7	1979.6	2001.7	2014.4	2002.3	1956.8	1907.5	1930.3	1944.8	2018.8	1919.5
37.5°	2035.8	2043.4	2073.8	2104.7	2109.8	2085.1	2085.1	2159.7	2188.2	2284.9	2169.2
40°	2080.7	2088.3	2121.2	2157.2	2206.5	2223.6	2267.8	2383.5	2423.9	2489.0	2355.0
42.5°	2054.2	2058.0	2128.8	2216.6	2289.3	2371.5	2441.6	2588.3	2626.8	2672.3	2508.0
45°	2007.4	2014.4	2092.7	2234.3	2359.5	2522.5	2611.0	2781.0	2825.3	2820.9	2625.5
47.5°	1955.6	1966.3	2053.5	2211.6	2419.5	2653.4	2765.9	2942.8	2968.1	2936.5	2707.1
50°	1898.1	1916.4	2009.3	2188.8	2463.1	2767.8	2880.9	3064.2	3077.5	3013.0	2778.5
52.5°	1832.3	1844.3	1947.4	2145.2	2493.4	2843.6	2972.5	3154.6	3160.3	3107.8	2853.7
55°	1741.3	1752.0	1866.5	2087.0	2497.9	2888.5	3031.3	3251.3	3270.2	3219.0	2922.0
57.5°	1643.3	1656.6	1774.2	2003.0	2457.4	2906.8	3102.1	3375.8	3412.5	3339.1	2977.0
60°	1529.6	1546.6	1665.5	1900.6	2377.8	2935.3	3234.2	3557.2	3602.7	3475.0	3029.4
62.5°	1411.4	1420.9	1530.2	1759.0	2253.9	2949.8	3354.3	3764.5	3808.1	3603.3	3054.1
65°	1245.1	1260.3	1357.6	1589.0	2079.5	2887.2	3410.6	3909.2	3940.8	3707.6	3030.1
67.5°	1068.8	1068.8	1151.6	1385.5	1846.9	2721.6	3387.8	3978.8	4016.7	3780.9	2954.2
69°	946.8	956.3	1019.5	1232.5	1676.2	2574.3	3363.2	4042.6	4073.6	3757.6	2867.0
70°	853.3	861.5	925.3	1121.3	1549.2	2458.1	3310.1	4014.2	4036.9	3685.5	2775.3
72.5°	627.6	634.6	678.8	781.2	1164.9	1983.4	2984.6	3629.2	3643.2	3314.5	2448.6
75°	427.9	431.7	465.2	527.8	679.5	1386.7	2438.5	3065.5	3106.5	2874.6	2004.9
77.5°	147.9	159.3	179.5	242.7	290.7	544.8	1652.8	2415.7	2477.0	2226.1	1402.5
80°	50.6	49.9	96.1	124.5	153.0	250.3	522.7	1012.5	1070.1	917.7	505.0
82.5°	37.9	39.2	63.8	68.9	46.8	92.3	203.5	309.7	339.4	296.4	209.2
85°	24.0	23.4	28.4	29.7	21.5	39.2	49.3	49.9	51.8	44.9	45.5
87.5°	13.3	13.3	12.6	10.7	5.7	5.1	4.4	4.4	3.8	3.8	3.8
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°	1039.7	1039.7	1039.7	1039.7	1039.7	1039.7	1039.7	1039.7	1039.7	1039.7	1039.7
2.5°	1029.6	1038.5	1040.4	1042.9	1049.2	1057.4	1068.8	1068.8	1073.2	1086.5	1090.9
5°	1044.2	1054.9	1068.8	1083.3	1100.4	1118.7	1137.1	1143.4	1152.2	1169.9	1173.7
7.5°	1066.3	1078.3	1102.3	1121.9	1136.4	1154.8	1169.9	1172.5	1183.8	1200.3	1203.4
10°	1089.0	1099.8	1123.8	1133.9	1153.5	1173.7	1181.3	1185.1	1194.6	1207.2	1205.3
12.5°	1120.0	1123.2	1140.2	1147.2	1156.7	1169.3	1173.1	1173.1	1178.8	1199.0	1199.6
15°	1150.3	1150.3	1152.9	1149.1	1150.3	1156.7	1157.3	1149.1	1155.4	1165.5	1161.7
17.5°	1182.6	1173.7	1162.3	1145.9	1131.4	1130.7	1117.5	1097.9	1092.2	1106.7	1106.1
20°	1212.9	1197.7	1170.6	1133.3	1113.0	1085.9	1052.4	1041.0	1040.4	1042.9	1041.0
22.5°	1252.7	1221.8	1172.5	1121.3	1065.6	1022.7	994.9	956.3	955.0	949.3	940.5
25°	1300.1	1255.9	1180.7	1108.0	1027.1	971.5	904.5	863.4	840.0	845.1	829.9
27.5°	1361.4	1307.7	1183.8	1078.9	974.0	879.8	798.9	745.8	725.6	716.7	706.6
30°	1445.5	1362.7	1206.6	1054.3	908.3	783.7	684.5	607.4	578.3	585.9	587.2
32.5°	1580.1	1467.0	1218.6	1005.6	832.4	678.8	549.9	466.5	449.4	470.9	476.6
35°	1814.6	1628.8	1247.0	976.5	745.8	556.2	408.9	374.8	378.6	396.9	398.2
37.5°	2045.3	1833.6	1334.9	913.3	642.2	412.1	317.3	299.0	317.3	340.7	343.8
40°	2207.1	1993.5	1412.6	850.7	496.8	298.3	242.1	220.0	246.5	283.8	290.7
42.5°	2350.6	2120.5	1467.6	764.2	340.0	213.0	173.8	179.5	218.7	245.9	252.2
45°	2453.6	2207.8	1505.5	651.6	216.8	161.2	155.5	173.8	211.1	232.6	234.5
47.5°	2518.7	2259.0	1477.7	513.2	163.1	152.3	153.0	176.3	213.6	237.7	237.0
50°	2577.5	2286.1	1387.4	407.0	154.9	146.0	156.1	183.3	221.9	244.0	242.7
52.5°	2640.1	2312.7	1277.4	319.2	148.5	142.8	159.9	187.7	221.9	235.8	233.9
55°	2693.8	2336.1	1194.6	256.6	144.1	142.2	163.7	194.7	220.6	226.3	222.5
57.5°	2721.6	2296.2	1104.8	215.5	139.7	142.2	166.2	193.4	228.2	246.5	242.7
60°	2706.4	2259.0	1032.1	200.4	133.4	141.6	167.5	207.3	280.0	297.1	295.8
62.5°	2678.6	2217.9	930.4	180.1	126.4	142.8	166.9	220.0	322.3	316.7	300.9
65°	2621.8	2135.7	791.3	156.7	119.5	145.4	166.9	247.8	281.3	274.9	268.0
67.5°	2500.4	1958.1	633.3	134.6	111.9	137.8	164.3	235.8	242.1	225.6	217.4
69°	2364.5	1788.7	501.2	122.6	107.4	134.0	163.7	227.5	238.3	220.6	211.1
70°	2258.3	1656.6	405.1	113.8	103.0	132.7	163.1	221.9	236.4	216.8	206.7
72.5°	1881.0	1338.7	212.4	91.6	87.9	120.7	157.4	216.8	237.0	207.9	193.4
75°	1477.7	952.5	140.9	70.2	67.6	105.6	144.1	208.6	223.1	187.1	165.0
77.5°	911.4	417.2	97.3	48.7	49.3	82.2	123.9	186.5	225.0	189.0	160.5
80°	264.8	161.2	61.9	32.9	30.3	48.7	97.3	160.5	213.6	194.0	175.1
82.5°	153.0	104.9	41.7	20.9	18.3	22.1	61.3	124.5	188.4	177.6	181.4
85°	34.8	29.1	15.2	10.1	10.1	12.6	20.9	72.1	130.2	152.3	171.9
87.5°	3.8	3.8	3.8	3.8	3.8	3.2	3.8	19.6	56.9	80.9	94.2
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)