

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: P233730

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233730
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: LUMARK
Catalog Number: VRDN-C01-D-UNV-T3-7030-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1230mA LED AND TYPE III OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6418 lumens
Efficiency: N/A
Efficacy: 114.6 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

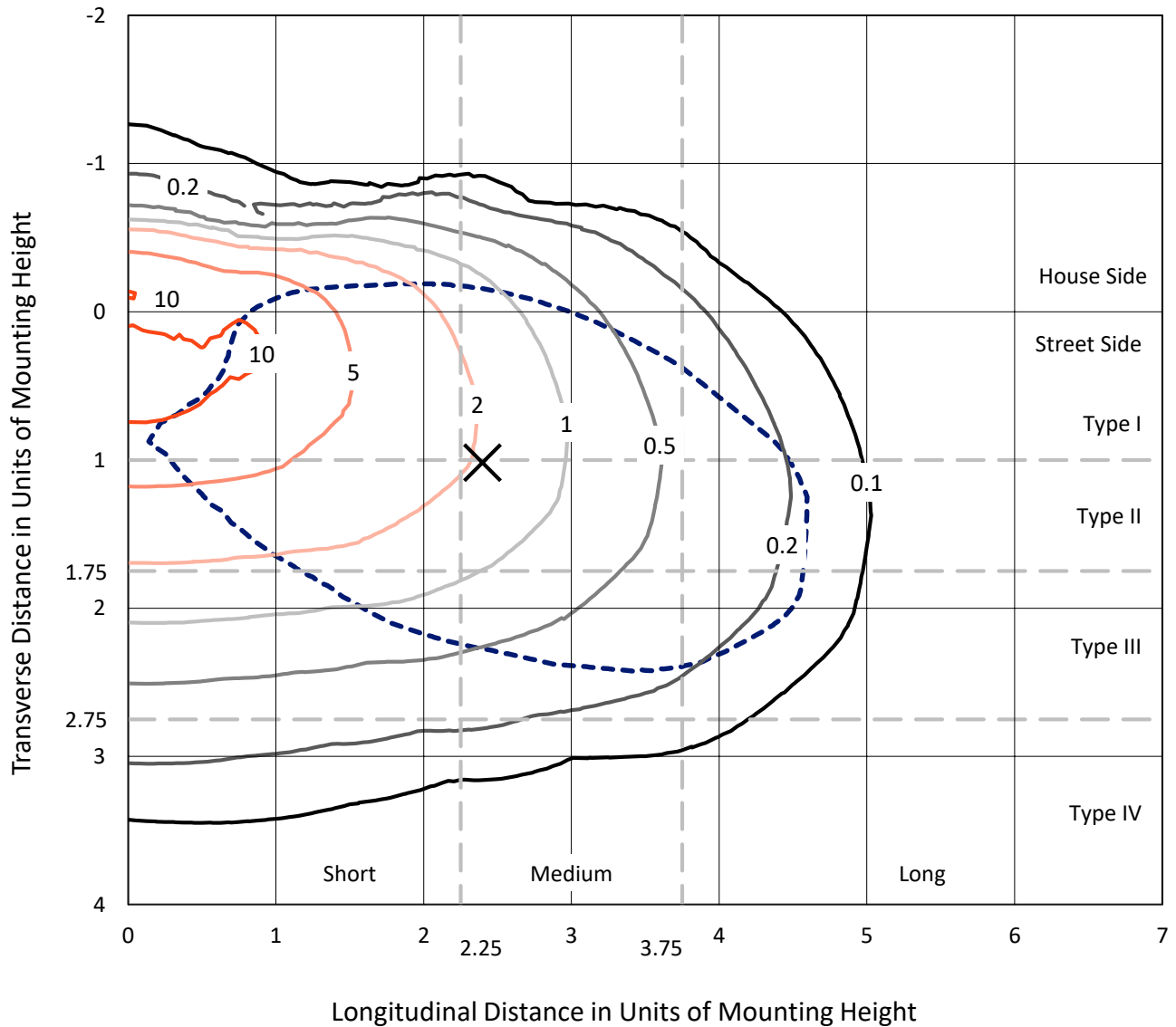
Input Watts (W): 56
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P233730
 CATALOG NUMBER: VRDN-C01-D-UNV-T3-7030-HSS

Iso-Footcandle Lines of Horizontal Illumination

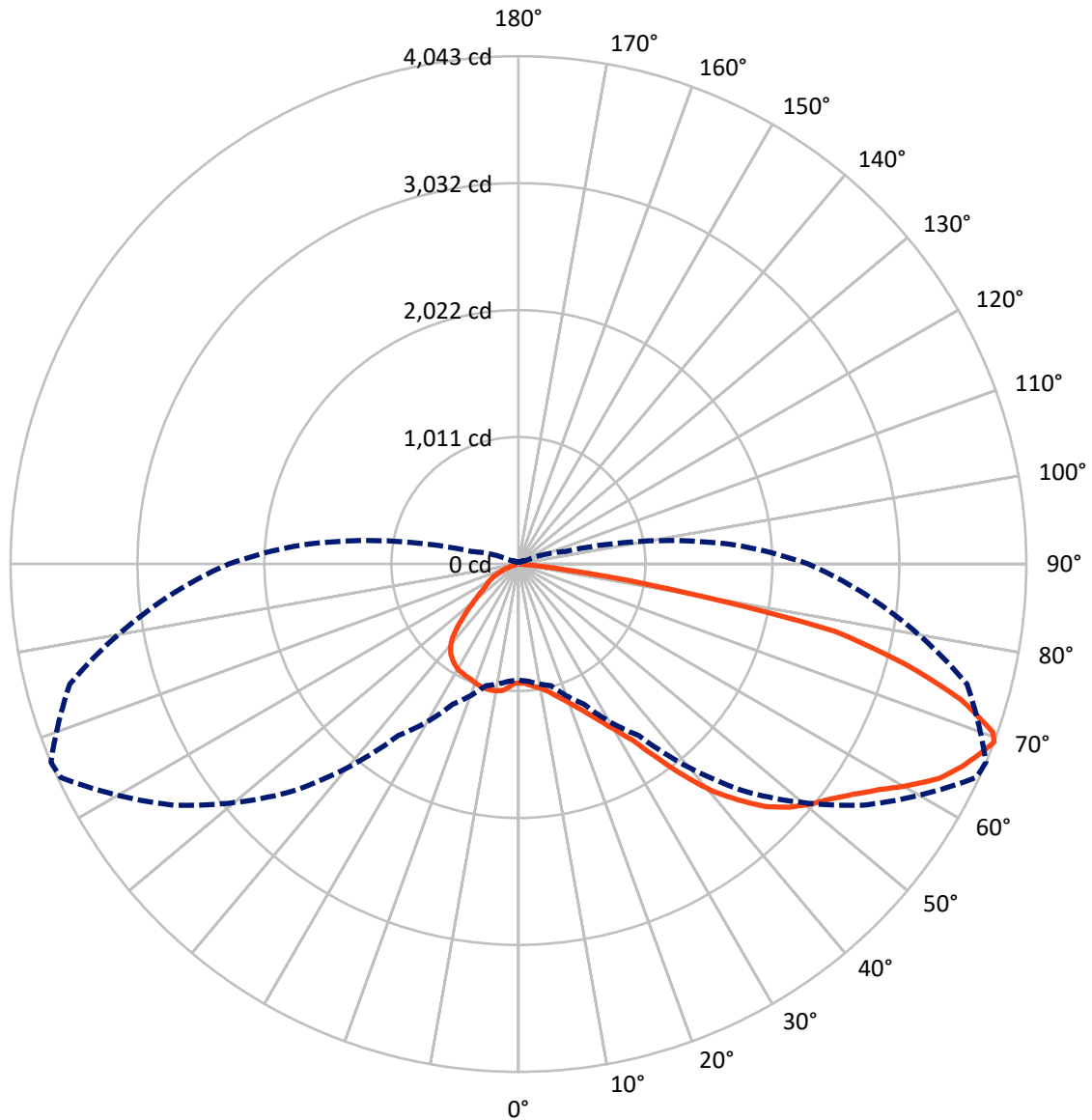
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.6 fc
 Type III - Medium - Semi-Cutoff

REPORT NUMBER: P233730
CATALOG NUMBER: VRDN-C01-D-UNV-T3-7030-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P233730

CATALOG NUMBER: VRDN-C01-D-UNV-T3-7030-HSS

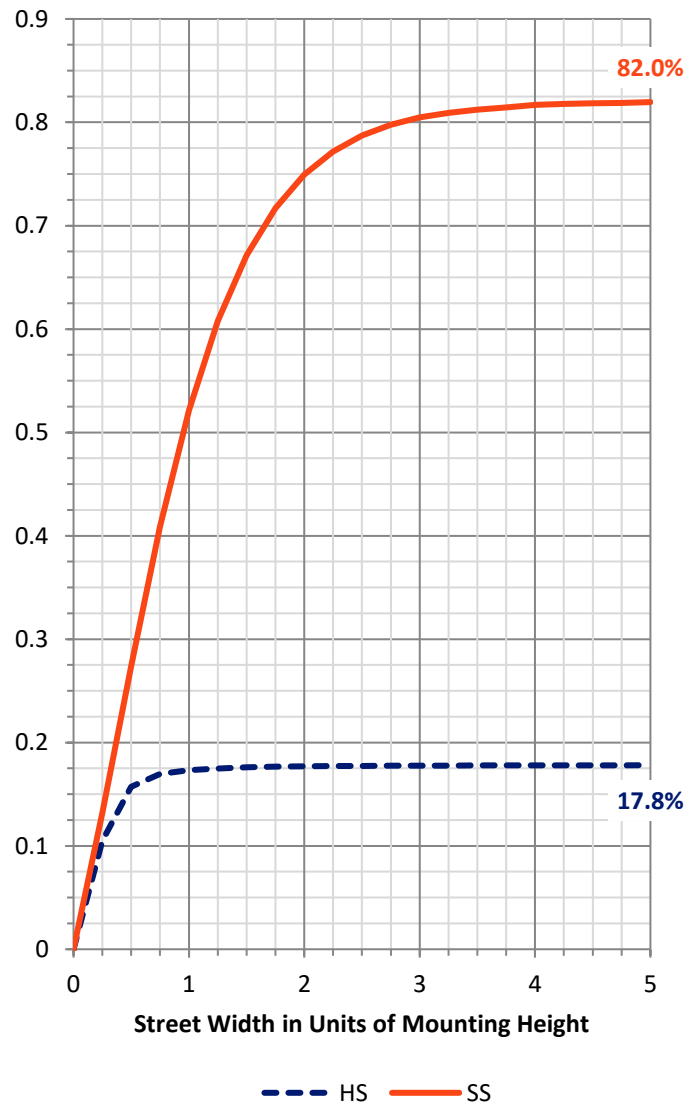
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1157.0	0.0	1157.0
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	5261.0	0.0	5261.0
	% Fixture	82.0	0.0	82.0
Total	Lumens	6418.0	0.0	6418.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.8	1.5
10°-20°	301.3	4.7
20°-30°	514.3	8.0
30°-40°	777.6	12.1
40°-50°	1098.5	17.1
50°-60°	1327.5	20.7
60°-70°	1400.8	21.8
70°-80°	843.3	13.1
80°-90°	58.9	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°	6418.0	100.0
0°-180°	6418.0	100.0

Coefficient of Utilization



REPORT NUMBER: P233730

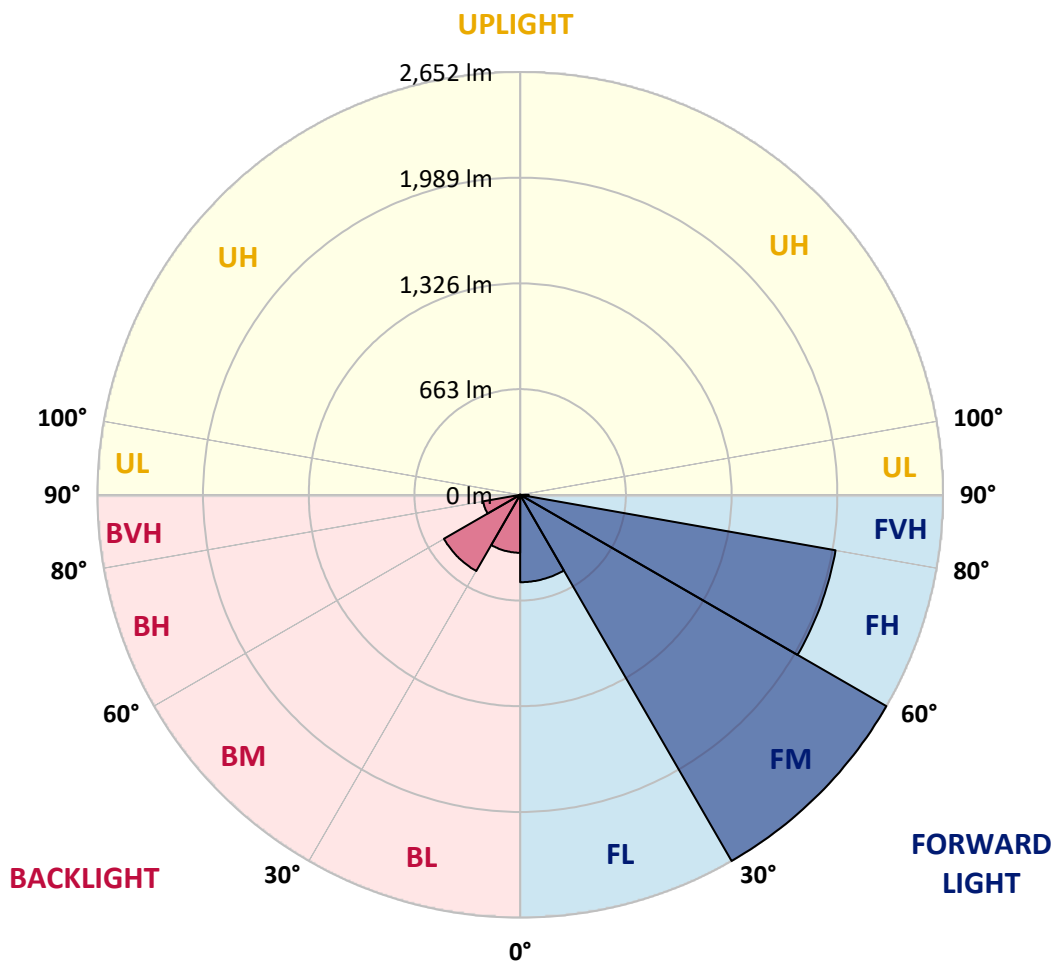
CATALOG NUMBER: VRDN-C01-D-UNV-T3-7030-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	548.0	8.5			
FM	(30°-60°)	2651.6	41.3			
FH	(60°-80°)	2008.2	31.3			G2/5000
FVH	(80°-90°)	53.2	0.8			G1/100
BL	(0°-30°)	363.4	5.7	B1/500		
BM	(30°-60°)	552.0	8.6	B1/1000		
BH	(60°-80°)	235.9	3.7	B1/500		G1/500
BVH	(80°-90°)	5.7	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-G2

Type III Medium





REPORT NUMBER: P233730
 CATALOG NUMBER: VRDN-C01-D-UNV-T3-7030-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1
2.5°	973.7	972.1	972.1	963.4	955.3	953.2	952.7	950.1	950.7	947.1	943.5
5°	1001.8	1001.8	1000.8	989.5	980.8	975.2	971.6	967.0	967.5	965.0	961.9
7.5°	1044.2	1044.8	1042.7	1027.9	1019.2	1005.4	997.2	988.5	988.0	984.9	985.9
10°	1096.4	1097.9	1094.9	1075.9	1061.1	1042.2	1024.8	1009.5	1008.4	1004.9	1007.9
12.5°	1155.2	1157.3	1149.6	1130.2	1113.3	1083.6	1062.7	1042.2	1039.1	1038.6	1040.7
15°	1222.7	1223.7	1221.2	1192.5	1172.1	1145.0	1110.7	1084.6	1081.6	1082.1	1079.5
17.5°	1297.9	1300.4	1294.8	1269.3	1242.1	1204.8	1163.9	1131.7	1130.2	1128.6	1117.4
20°	1377.7	1380.2	1376.6	1352.6	1320.4	1273.3	1223.2	1186.4	1185.9	1182.3	1156.2
22.5°	1467.7	1471.2	1469.2	1440.1	1405.8	1354.7	1292.3	1253.9	1252.9	1241.6	1202.3
25°	1565.3	1564.3	1566.4	1535.2	1503.0	1449.3	1372.0	1332.2	1332.2	1318.3	1260.0
27.5°	1659.9	1659.4	1663.0	1641.0	1607.3	1556.6	1463.6	1423.2	1426.8	1406.8	1329.6
30°	1752.0	1752.0	1760.7	1746.4	1721.3	1668.1	1577.1	1534.7	1539.3	1518.3	1417.6
32.5°	1837.9	1842.0	1856.8	1848.1	1829.2	1781.1	1703.4	1664.5	1675.3	1684.0	1581.2
35°	1901.3	1905.4	1939.7	1942.7	1938.1	1905.9	1848.1	1873.2	1886.0	1954.5	1840.0
37.5°	1957.1	1962.2	2003.1	2028.7	2043.5	2023.5	2027.1	2111.0	2135.0	2215.8	2060.9
40°	1998.0	2009.2	2049.6	2084.9	2137.1	2160.6	2218.9	2338.0	2376.9	2409.1	2212.8
42.5°	1969.8	1977.5	2048.6	2143.2	2219.4	2302.2	2396.8	2538.5	2567.7	2557.4	2346.7
45°	1928.4	1937.6	2012.3	2158.5	2284.9	2450.0	2565.6	2719.0	2752.3	2695.5	2462.3
47.5°	1881.9	1894.7	1975.5	2138.1	2339.6	2586.1	2718.5	2874.0	2893.4	2818.7	2559.5
50°	1834.8	1849.2	1940.7	2121.2	2382.0	2699.6	2830.0	3000.3	3005.9	2921.0	2646.9
52.5°	1771.4	1786.3	1886.5	2085.9	2411.7	2774.2	2927.7	3104.1	3107.7	3031.5	2729.8
55°	1691.1	1710.1	1815.9	2033.8	2418.8	2817.7	2989.5	3212.0	3236.0	3151.1	2797.8
57.5°	1596.5	1613.9	1730.5	1958.6	2383.0	2832.5	3076.0	3354.7	3387.9	3272.3	2854.0
60°	1487.6	1507.6	1624.7	1861.4	2310.9	2874.0	3219.2	3556.2	3576.1	3399.2	2903.6
62.5°	1376.1	1390.4	1496.8	1724.9	2198.4	2899.0	3346.0	3745.4	3758.7	3521.4	2933.3
65°	1217.6	1235.5	1339.3	1568.4	2036.3	2851.0	3394.6	3874.7	3882.9	3623.7	2919.0
67.5°	1045.3	1059.6	1135.3	1379.7	1823.6	2698.6	3374.6	3961.2	3987.2	3703.4	2854.0
69°	923.0	937.4	1002.8	1228.9	1665.6	2563.6	3346.5	4020.0	4043.0	3697.8	2771.2
70°	827.9	842.2	904.1	1116.3	1541.8	2449.5	3302.0	3990.3	4005.1	3634.9	2690.4
72.5°	592.2	606.5	657.1	785.0	1168.0	2013.3	3026.4	3661.0	3680.9	3332.7	2404.5
75°	309.9	344.2	435.2	507.3	691.9	1417.6	2516.0	3148.6	3177.7	2924.6	1977.5
77.5°	39.9	41.9	122.7	206.1	285.9	597.8	1787.3	2528.3	2574.3	2340.6	1367.4
80°	32.2	32.7	42.4	102.8	142.2	242.4	634.1	1183.3	1239.1	1040.2	502.7
82.5°	22.5	23.5	33.2	54.2	46.5	88.5	220.4	334.4	344.7	298.1	200.5
85°	12.8	12.8	15.9	21.0	14.8	33.2	45.5	48.6	43.5	43.0	32.2
87.5°	3.6	4.1	4.6	3.6	1.5	1.5	2.0	2.0	2.0	1.5	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P233730
 CATALOG NUMBER: VRDN-C01-D-UNV-T3-7030-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1
2.5°	949.1	948.1	948.6	950.7	953.7	965.0	972.6	973.7	977.3	990.5	989.0
5°	965.5	971.6	975.2	985.9	993.1	1008.4	1017.7	1018.7	1023.8	1037.6	1038.1
7.5°	988.5	998.7	1003.8	1016.1	1018.7	1025.8	1028.4	1025.8	1026.3	1038.6	1039.6
10°	1008.4	1021.2	1021.2	1024.3	1019.7	1020.2	1012.0	1004.4	1000.3	1011.0	1013.6
12.5°	1039.1	1042.7	1034.5	1025.3	1011.5	999.2	985.4	973.2	963.4	969.6	966.0
15°	1070.8	1065.2	1045.3	1021.2	996.7	975.7	947.1	929.2	912.3	915.9	912.8
17.5°	1102.5	1084.1	1052.9	1013.0	977.3	937.4	897.5	869.3	838.7	836.1	831.5
20°	1133.2	1106.6	1055.0	996.2	946.1	889.8	827.9	779.9	734.3	722.6	714.9
22.5°	1170.0	1131.7	1057.5	979.8	912.3	835.6	742.0	667.4	618.3	601.9	594.2
25°	1217.1	1166.5	1064.7	967.5	878.0	768.6	640.3	554.8	501.7	473.5	471.0
27.5°	1272.8	1208.4	1077.0	951.7	829.5	679.1	534.9	445.9	389.2	360.5	351.3
30°	1346.0	1260.6	1088.2	939.4	760.9	581.4	424.4	325.2	257.7	239.3	229.6
32.5°	1484.5	1345.4	1102.5	910.8	680.1	474.6	300.7	200.5	154.4	142.2	142.2
35°	1710.1	1532.1	1138.3	871.4	583.0	345.7	180.5	112.5	92.0	84.9	81.3
37.5°	1913.6	1720.3	1227.8	810.5	464.8	204.6	103.3	69.5	62.9	63.9	63.9
40°	2057.3	1849.2	1326.5	728.2	315.5	109.4	65.5	55.7	56.8	57.3	57.3
42.5°	2180.5	1959.1	1380.7	630.5	171.8	71.1	56.3	50.6	52.2	51.6	51.1
45°	2283.8	2048.6	1398.6	496.0	83.4	62.9	51.1	46.5	46.5	46.0	46.0
47.5°	2372.3	2127.9	1365.4	368.7	67.5	57.8	48.6	43.0	42.4	45.0	45.0
50°	2453.1	2189.2	1282.5	279.2	65.5	53.2	46.0	39.9	40.4	44.0	44.0
52.5°	2520.6	2225.5	1159.8	209.2	60.9	49.1	42.4	37.3	37.3	40.9	40.9
55°	2570.7	2225.5	1066.2	156.5	58.3	45.0	39.4	35.8	33.8	34.8	35.3
57.5°	2595.8	2183.6	991.1	126.8	55.2	40.9	36.3	31.2	27.6	28.6	28.1
60°	2589.1	2159.6	904.6	113.0	51.6	37.8	32.2	26.6	23.0	22.0	22.0
62.5°	2576.9	2132.5	796.7	98.2	48.1	35.3	26.6	21.5	19.4	18.4	18.9
65°	2530.3	2044.5	660.2	81.8	44.5	34.3	22.5	18.9	16.9	15.9	15.9
67.5°	2417.8	1886.0	499.1	69.0	41.4	27.6	19.4	16.4	14.3	13.3	13.3
69°	2306.3	1734.6	383.0	62.9	39.4	25.1	17.9	14.8	13.3	11.8	11.8
70°	2210.2	1617.5	300.2	58.8	37.8	24.0	17.4	14.3	12.8	11.3	11.3
72.5°	1881.9	1283.1	152.4	51.1	31.7	21.0	15.3	12.8	10.7	9.2	9.2
75°	1460.0	884.2	100.7	40.4	24.5	18.9	13.8	11.3	9.2	7.7	7.2
77.5°	878.6	345.7	72.1	26.1	15.9	14.8	11.3	9.2	7.7	6.1	6.1
80°	242.4	148.3	48.6	17.4	9.2	9.7	8.2	6.6	5.6	4.6	4.6
82.5°	145.7	96.1	32.2	11.3	6.1	6.1	4.6	4.6	3.6	3.6	3.6
85°	25.1	19.4	7.7	4.6	3.6	3.6	2.6	1.5	1.5	1.5	1.5
87.5°	1.5	1.5	1.5	2.0	2.0	1.5	1.0	0.5	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)