

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: P233782

Luminaire Tested: **VRDN-C01-D-UNV-T4-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233782
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-34)
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-T4-7030-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1230mA LED AND TYPE IV OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7095 lumens
Efficiency: N/A
Efficacy: 126.7 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 - G3

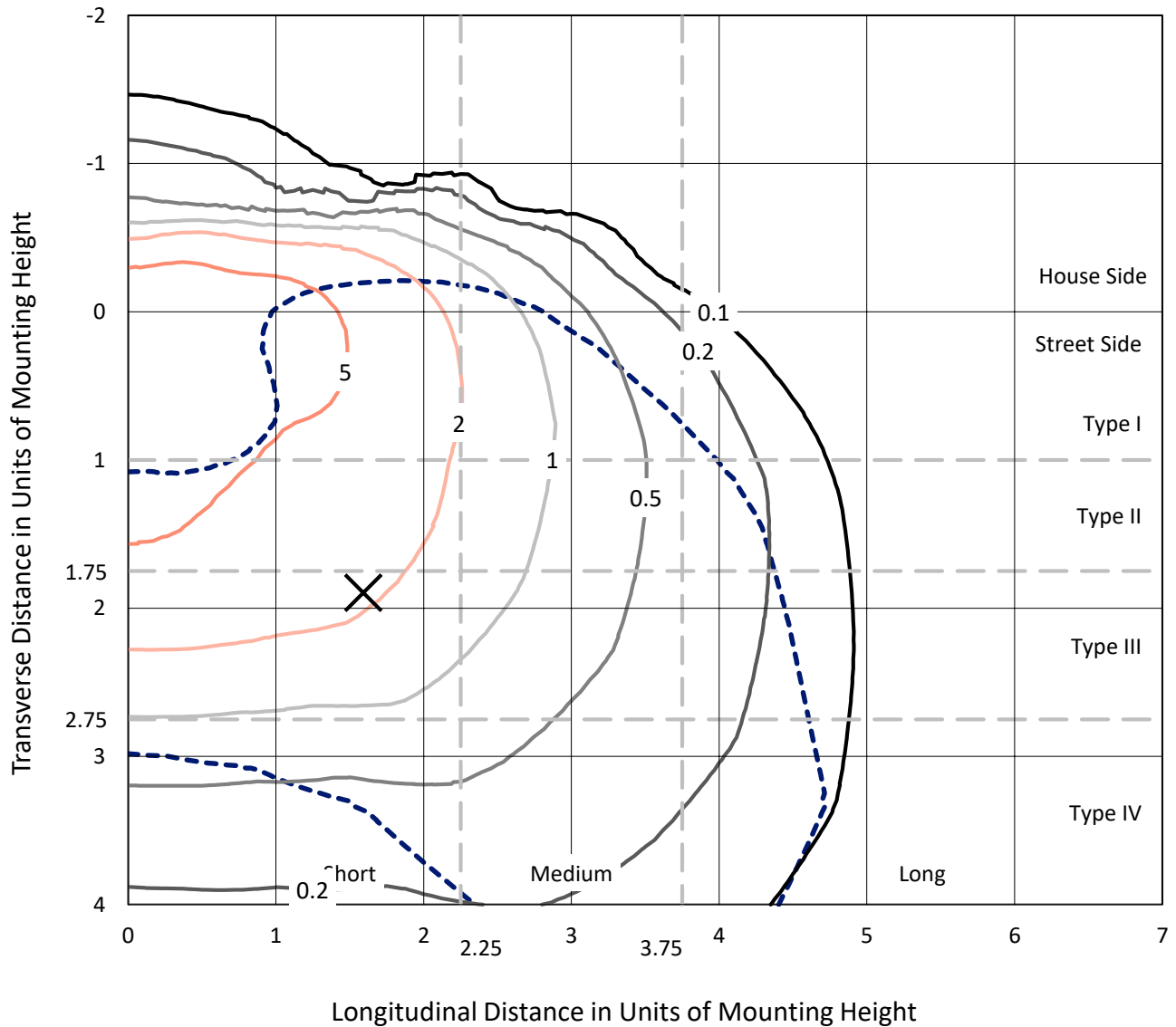
Input Watts (W): 56
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P233782
 CATALOG NUMBER: VRDN-C01-D-UNV-T4-7030-HSS

Iso-Footcandle Lines of Horizontal Illumination

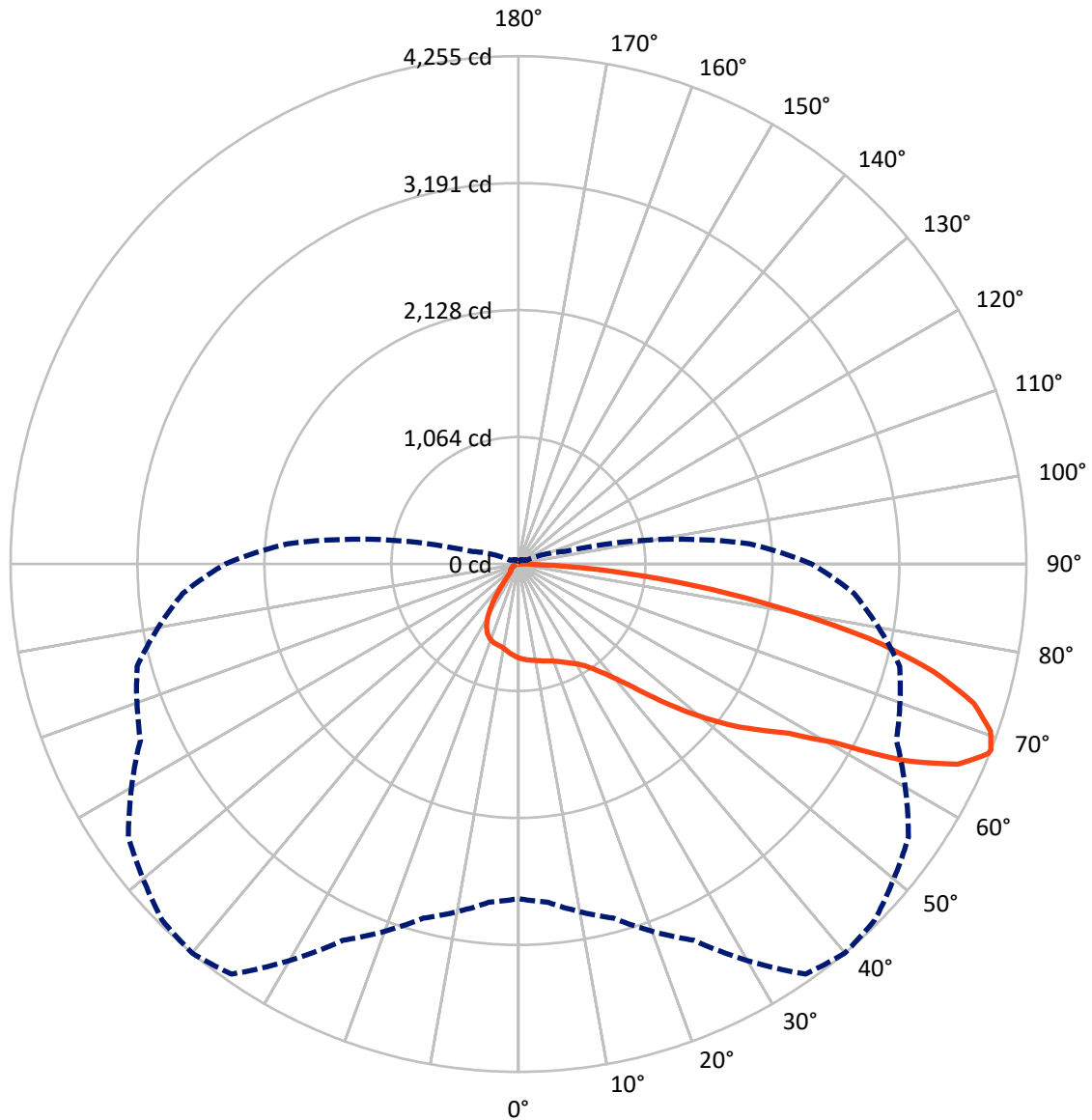
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.5 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P233782
CATALOG NUMBER: VRDN-C01-D-UNV-T4-7030-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

REPORT NUMBER: P233782

CATALOG NUMBER: VRDN-C01-D-UNV-T4-7030-HSS

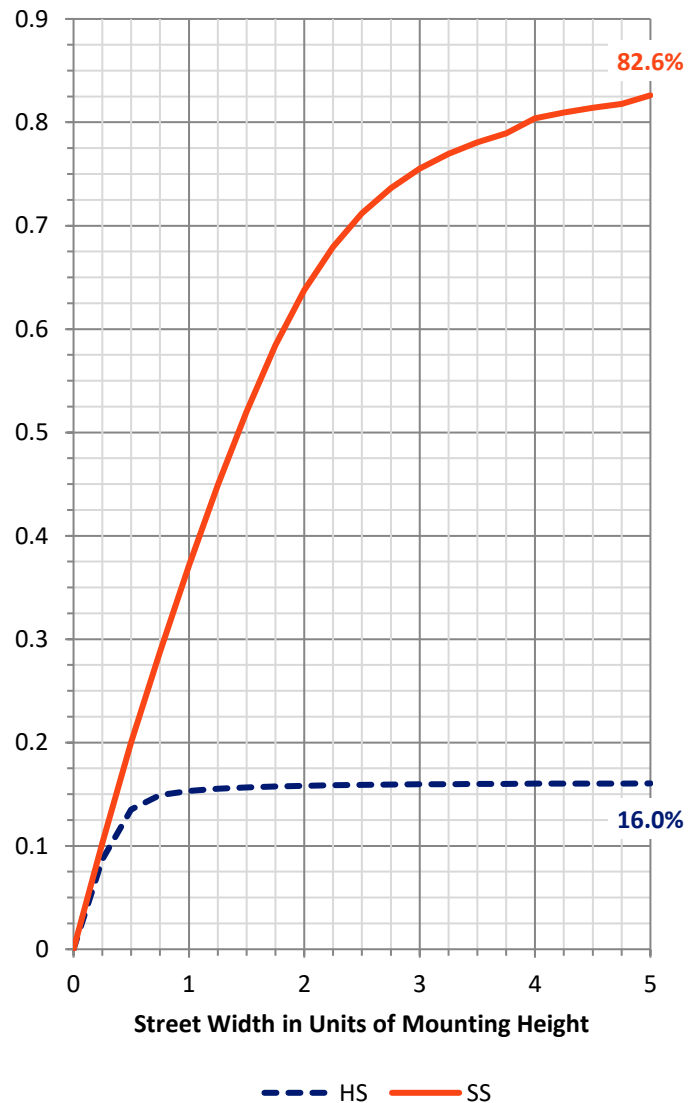
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1151.0	0.0	1151.0
	% Fixture	16.2	0.0	16.2
Street Side	Lumens	5944.1	0.0	5944.1
	% Fixture	83.8	0.0	83.8
Total	Lumens	7095.0	0.0	7095.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.8	1.1
10°-20°	224.0	3.2
20°-30°	376.0	5.3
30°-40°	556.8	7.8
40°-50°	942.0	13.3
50°-60°	1437.7	20.3
60°-70°	1882.5	26.5
70°-80°	1353.4	19.1
80°-90°	247.8	3.5
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°	7095.0	100.0
0°-180°	7095.0	100.0



REPORT NUMBER: P233782

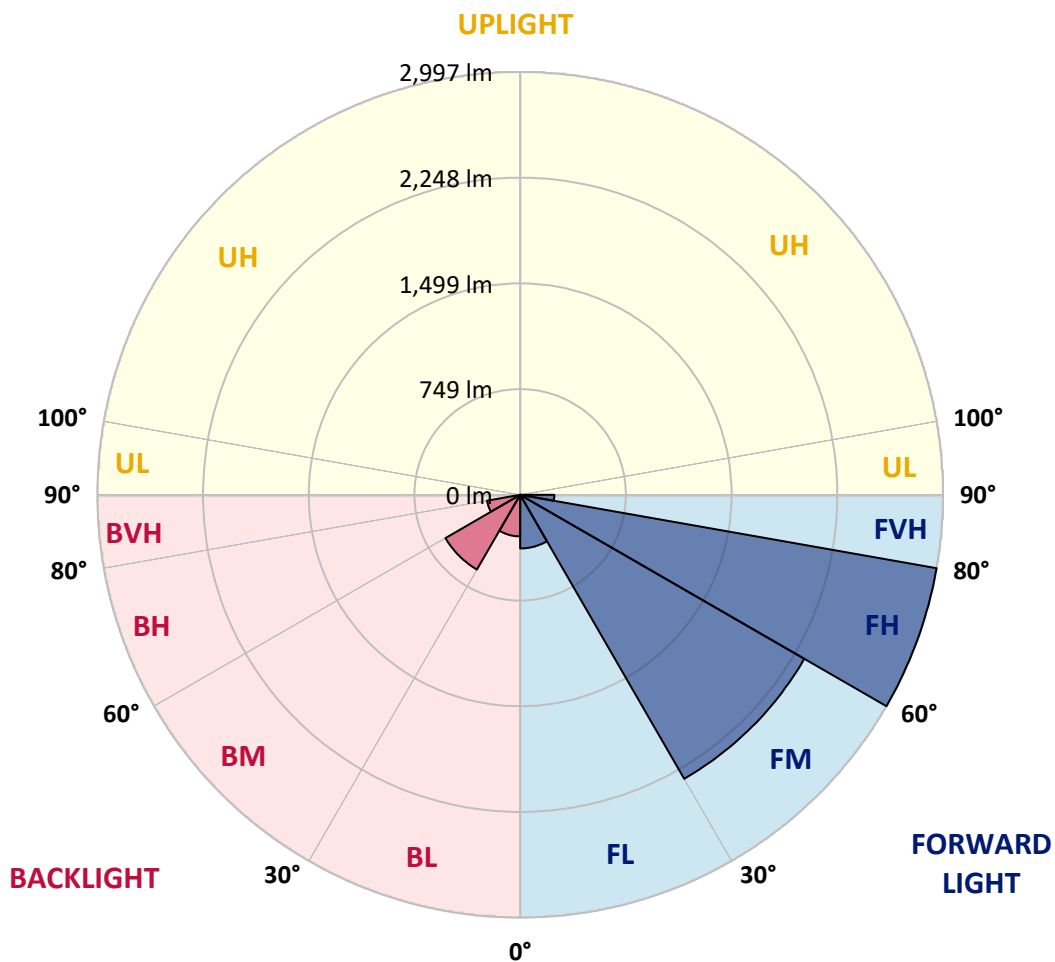
CATALOG NUMBER: VRDN-C01-D-UNV-T4-7030-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	380.3	5.4			
FM	(30°-60°)	2324.8	32.8			
FH	(60°-80°)	2997.0	42.2			G2/5000
FVH	(80°-90°)	241.9	3.4			G3/500
BL	(0°-30°)	294.5	4.2	B1/500		
BM	(30°-60°)	611.7	8.6	B1/1000		
BH	(60°-80°)	238.9	3.4	B1/500		G1/500
BVH	(80°-90°)	5.9	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-G3

Type IV Short





REPORT NUMBER: P233782

CATALOG NUMBER: VRDN-C01-D-UNV-T4-7030-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	788.4	788.4	788.4	788.4	788.4	788.4	788.4	788.4	788.4	788.4	788.4
2.5°	813.3	815.1	812.8	806.8	800.3	796.7	796.1	795.5	792.6	788.4	782.5
5°	821.7	822.3	819.9	815.1	809.2	808.0	806.2	806.8	805.0	800.9	794.3
7.5°	825.2	826.4	823.4	818.7	813.9	813.9	813.3	815.1	813.9	812.2	804.4
10°	824.0	825.8	824.0	822.3	820.5	822.3	821.1	825.2	825.8	825.8	816.9
12.5°	822.3	824.6	825.2	827.0	830.0	831.8	834.1	843.1	847.2	850.2	843.1
15°	824.0	825.2	830.0	833.0	838.9	843.1	848.4	863.3	870.4	878.7	875.1
17.5°	831.8	834.7	841.9	844.8	850.8	853.7	860.3	878.7	893.0	907.8	910.2
20°	848.4	850.2	862.1	863.3	866.2	869.2	876.3	896.5	917.9	939.3	945.2
22.5°	866.8	871.0	882.3	880.5	886.4	887.6	894.1	916.1	945.8	972.0	985.0
25°	885.8	889.4	900.7	901.9	909.0	913.7	921.5	942.9	980.9	1014.2	1037.3
27.5°	901.9	909.0	919.7	920.9	934.5	940.5	951.8	976.1	1021.9	1062.9	1100.9
30°	931.6	933.4	943.5	947.0	965.4	970.8	983.9	1014.7	1070.6	1121.7	1181.1
32.5°	968.4	967.8	977.3	983.3	1005.8	1015.3	1032.0	1067.6	1129.4	1193.0	1277.3
35°	1036.1	1030.2	1036.1	1042.1	1068.2	1078.3	1096.1	1149.6	1222.1	1330.2	1434.2
37.5°	1191.8	1182.9	1170.4	1140.7	1147.2	1160.3	1186.4	1258.9	1365.9	1566.7	1667.1
40°	1461.5	1441.9	1389.6	1311.2	1264.9	1266.1	1290.4	1385.5	1542.3	1837.6	1913.1
42.5°	1705.7	1692.0	1629.1	1521.5	1414.6	1408.6	1417.0	1528.1	1734.8	2088.9	2128.1
45°	1935.6	1942.2	1850.7	1766.3	1638.6	1599.4	1589.3	1680.2	1948.1	2312.9	2316.5
47.5°	2148.3	2159.0	2048.5	1968.9	1842.9	1809.1	1777.6	1840.0	2149.5	2503.6	2474.5
50°	2377.1	2385.4	2232.1	2166.7	2061.0	2029.5	2005.7	2033.1	2355.7	2680.7	2615.3
52.5°	2693.1	2646.8	2454.3	2346.2	2252.3	2249.9	2231.5	2248.7	2590.3	2839.9	2722.2
55°	3066.2	2945.0	2740.7	2567.8	2447.2	2453.7	2431.7	2460.2	2822.6	2976.5	2821.5
57.5°	3198.1	3195.2	3100.1	2934.3	2689.6	2674.7	2636.7	2668.8	3023.5	3104.3	2891.6
60°	3381.1	3397.2	3407.8	3308.0	3166.6	3031.8	2904.6	2901.7	3210.6	3220.7	2926.0
62.5°	3499.3	3514.2	3597.4	3584.3	3671.6	3627.1	3482.1	3160.7	3353.8	3296.2	2939.1
65°	3278.3	3315.2	3524.9	3684.7	3982.4	4044.7	4023.9	3558.8	3451.2	3318.1	2914.7
67.5°	2878.5	2926.6	3156.5	3530.2	4174.9	4244.4	4206.3	3959.8	3493.4	3308.6	2847.6
68°	2803.6	2845.2	3071.0	3478.5	4194.5	4255.1	4220.6	3989.5	3495.2	3307.4	2822.0
70°	2443.6	2477.5	2697.9	3213.6	4139.8	4196.2	4191.5	4017.4	3479.7	3270.6	2650.4
72.5°	1895.8	1929.7	2125.2	2665.2	3887.3	3990.7	3986.5	3905.7	3451.2	3082.9	2222.0
75°	1370.6	1408.1	1586.3	2047.9	3363.9	3591.4	3637.2	3714.4	3154.8	2594.5	1580.9
77.5°	989.8	1017.1	1171.0	1547.1	2747.8	3008.0	3100.7	3178.5	2582.0	1891.1	752.2
80°	660.1	679.7	828.2	1150.2	2069.9	2223.2	2323.0	2192.9	1469.2	683.8	81.4
82.5°	406.4	418.9	535.9	806.8	1431.8	1479.9	1480.5	1169.8	473.5	65.4	44.0
85°	218.0	222.2	291.1	440.2	756.3	792.6	778.3	491.3	95.7	35.1	23.8
87.5°	35.1	38.0	91.5	165.2	233.5	180.0	115.3	36.2	9.5	5.3	3.6
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: P233782

CATALOG NUMBER: VRDN-C01-D-UNV-T4-7030-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	788.4	788.4	788.4	788.4	788.4	788.4	788.4	788.4	788.4	788.4	788.4
2.5°	785.4	783.6	778.9	776.5	770.6	772.4	772.4	767.6	770.0	779.5	778.3
5°	792.6	793.1	781.9	775.9	762.8	759.3	753.9	746.8	746.2	752.7	753.3
7.5°	798.5	801.5	785.4	773.5	755.7	743.2	732.5	720.1	717.1	721.3	721.3
10°	808.0	811.0	790.8	774.1	748.0	727.8	709.4	693.3	686.8	686.8	687.4
12.5°	833.0	831.2	808.0	782.5	751.6	719.5	690.4	669.0	653.5	652.9	650.6
15°	867.4	860.9	838.3	799.7	759.9	718.9	678.5	645.2	618.5	611.3	608.4
17.5°	904.2	895.9	868.6	821.7	772.9	718.3	664.8	618.5	573.9	556.7	551.3
20°	944.0	933.9	906.0	847.2	786.0	714.1	644.6	579.9	519.3	486.6	478.3
22.5°	988.0	979.7	945.8	873.4	794.9	705.2	613.1	531.1	453.9	407.0	403.4
25°	1045.0	1037.3	987.4	896.5	795.5	688.6	571.5	468.8	371.9	316.7	305.4
27.5°	1113.4	1099.7	1020.7	910.8	786.0	659.5	517.5	385.6	276.3	229.9	228.7
30°	1187.6	1162.7	1047.4	914.3	764.6	613.1	443.2	283.4	196.1	164.6	164.6
32.5°	1275.0	1229.2	1074.8	908.4	729.6	549.0	339.2	196.7	134.9	120.0	120.0
35°	1402.7	1332.0	1109.8	893.6	680.3	460.4	241.2	130.1	106.3	104.6	104.6
37.5°	1604.7	1487.1	1157.3	868.6	612.5	351.1	156.8	100.4	101.6	101.6	101.0
40°	1819.8	1666.5	1222.7	828.8	527.6	242.4	102.8	95.1	96.8	98.0	97.4
42.5°	2014.1	1837.0	1294.0	775.3	427.2	152.7	93.9	91.5	90.3	91.5	92.1
45°	2182.2	1984.9	1365.9	705.8	315.5	99.8	91.5	86.1	82.6	83.2	83.8
47.5°	2326.0	2101.4	1414.6	632.7	209.1	88.5	88.5	79.0	75.5	75.5	75.5
50°	2451.9	2204.8	1444.3	545.4	124.8	87.3	83.2	72.5	68.9	68.3	68.9
52.5°	2543.4	2277.2	1440.7	439.1	83.8	84.4	76.0	66.5	62.4	63.6	64.2
55°	2615.9	2323.0	1409.2	321.4	78.4	79.0	70.7	60.0	57.0	57.6	57.6
57.5°	2661.6	2334.3	1345.1	209.1	76.6	70.7	63.6	53.5	49.9	49.9	49.9
60°	2676.5	2328.3	1257.7	133.7	76.0	63.6	57.6	48.1	44.6	44.6	44.6
62.5°	2664.0	2293.9	1109.8	96.2	70.7	59.4	52.3	42.8	39.2	38.0	38.0
65°	2619.5	2201.8	855.5	79.6	63.6	54.7	47.5	38.6	33.9	32.1	31.5
67.5°	2489.3	2002.2	497.9	74.9	57.6	49.9	44.0	35.1	29.7	26.7	26.1
68°	2455.5	1942.8	409.3	74.3	57.6	49.3	43.4	33.9	28.5	25.5	25.0
70°	2213.1	1567.3	117.6	70.7	56.4	47.5	39.8	30.9	25.5	22.0	21.4
72.5°	1666.5	918.5	73.7	63.0	55.8	42.2	38.6	30.9	22.6	19.0	17.8
75°	930.4	209.1	62.4	46.9	52.3	41.6	38.0	27.9	20.2	15.4	14.9
77.5°	191.3	60.6	53.5	32.7	39.8	36.2	32.1	23.8	18.4	11.9	11.3
80°	54.1	45.2	47.5	23.8	22.6	25.5	23.8	20.8	13.7	8.9	8.9
82.5°	35.1	33.3	42.8	16.0	11.9	11.9	15.4	12.5	11.9	7.1	7.1
85°	21.4	27.9	20.8	7.1	5.9	4.8	5.3	5.3	7.1	4.8	4.8
87.5°	3.0	3.0	3.0	3.0	3.0	2.4	1.8	1.8	1.8	2.4	2.4
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)