

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: P511174

Luminaire Tested: **PRV-P-PA1B-8540-U-T4W**

Issue Date: 4/7/2021

Test Information

Test Method: LM-79-08
Report Number: P511174
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-171-7)
Test Lab: INNOVATION CENTER
Issue Date: 4/7/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-P-PA1B-8540-U-T4W
Description: PREVAIL AREA AND WALL LUMINAIRE
(1) 85 CRI, 4000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5564 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 1.04' x L: 0.58' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 52.8
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

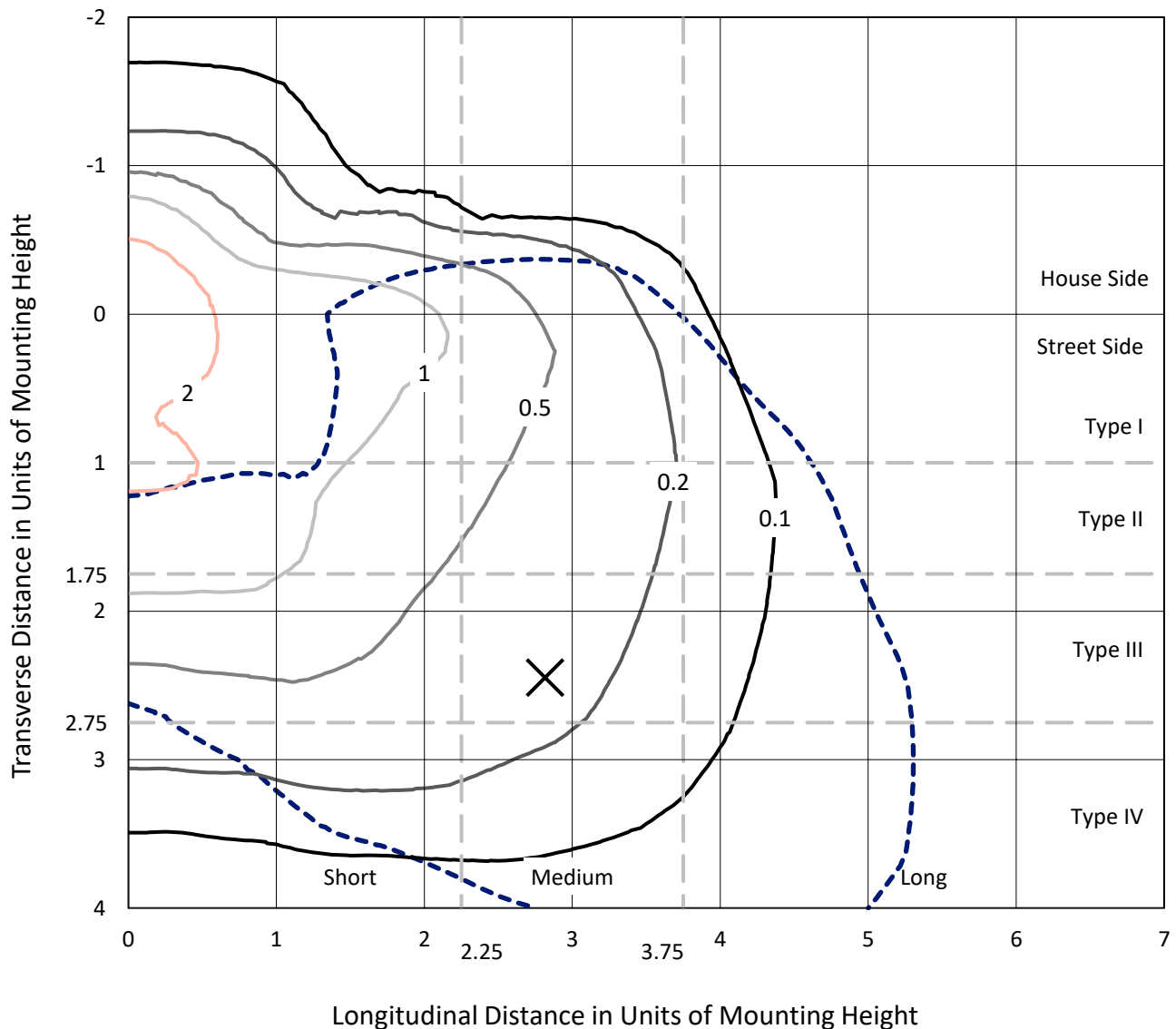


REPORT NUMBER: P511174

CATALOG NUMBER: PRV-P-PA1B-8540-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

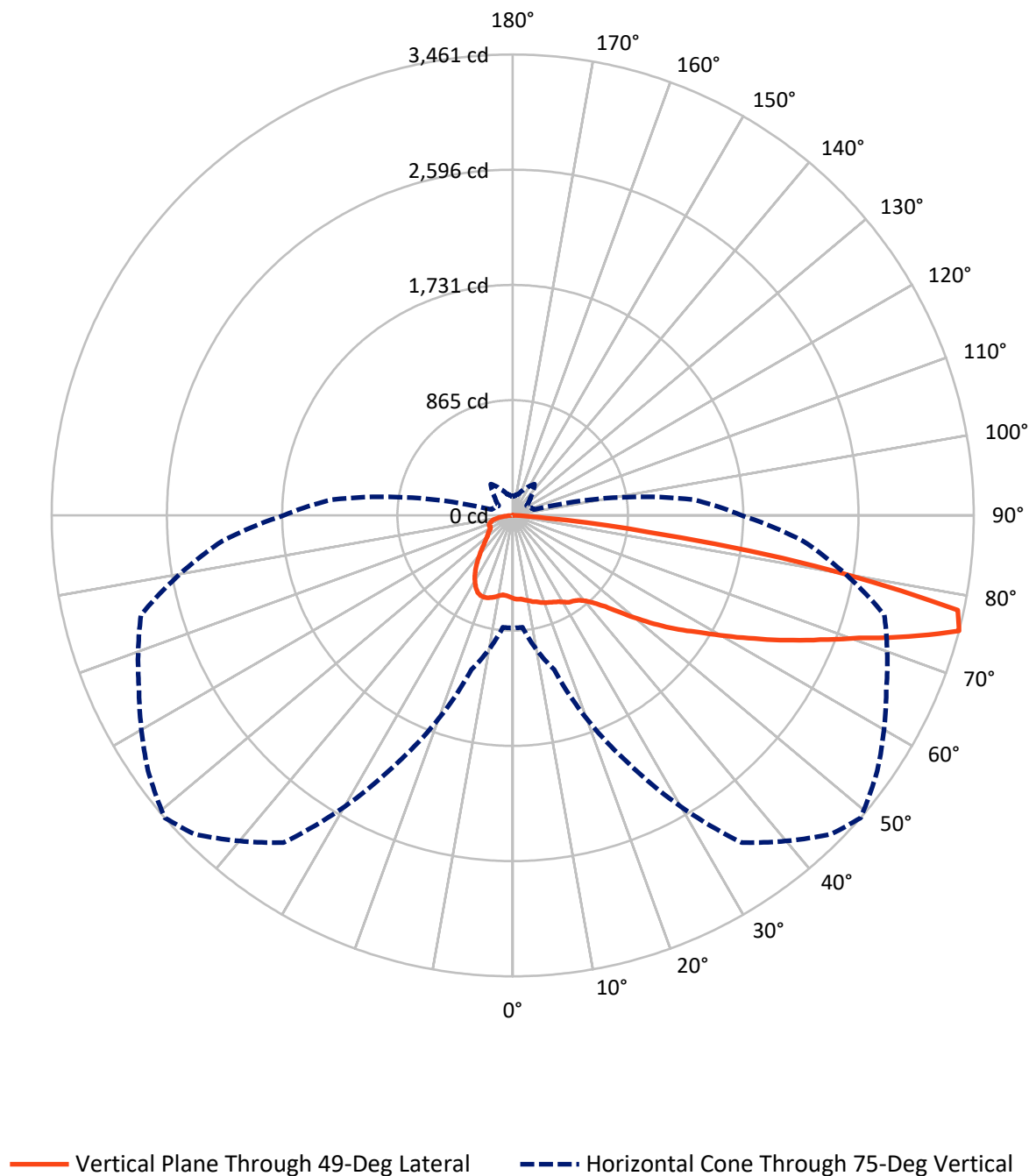


Based on 15 foot mounting height. Maximum calculated value = 3.1 fc
Type IV - Medium - N/A

REPORT NUMBER: P511174

CATALOG NUMBER: PRV-P-PA1B-8540-U-T4W

Luminous Intensity Polar Plot



REPORT NUMBER: P511174

CATALOG NUMBER: PRV-P-PA1B-8540-U-T4W

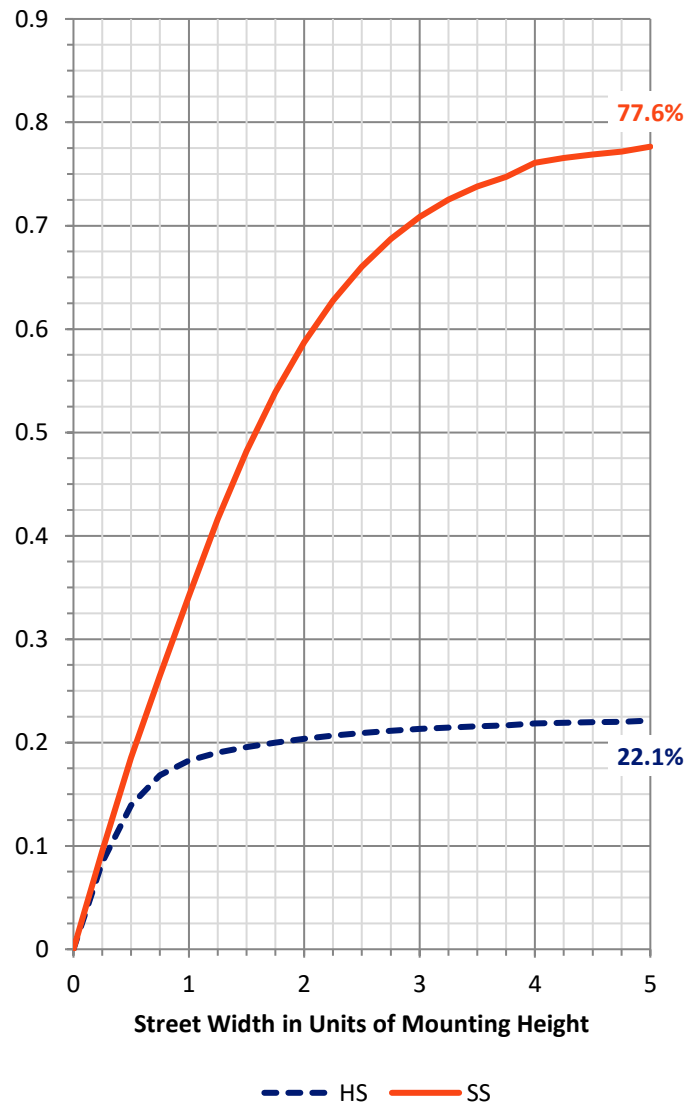
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1246.1	0.0	1246.1
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	4317.9	0.0	4317.9
	% Fixture	77.6	0.0	77.6
Total	Lumens	5564.0	0.0	5564.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.9	1.1
10°-20°	187.8	3.4
20°-30°	316.0	5.7
30°-40°	428.3	7.7
40°-50°	628.5	11.3
50°-60°	1001.5	18.0
60°-70°	1458.7	26.2
70°-80°	1319.8	23.7
80°-90°	163.5	2.9
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°	5564.0	100.0
0°-180°	5564.0	100.0

Coefficient of Utilization



REPORT NUMBER: P511174

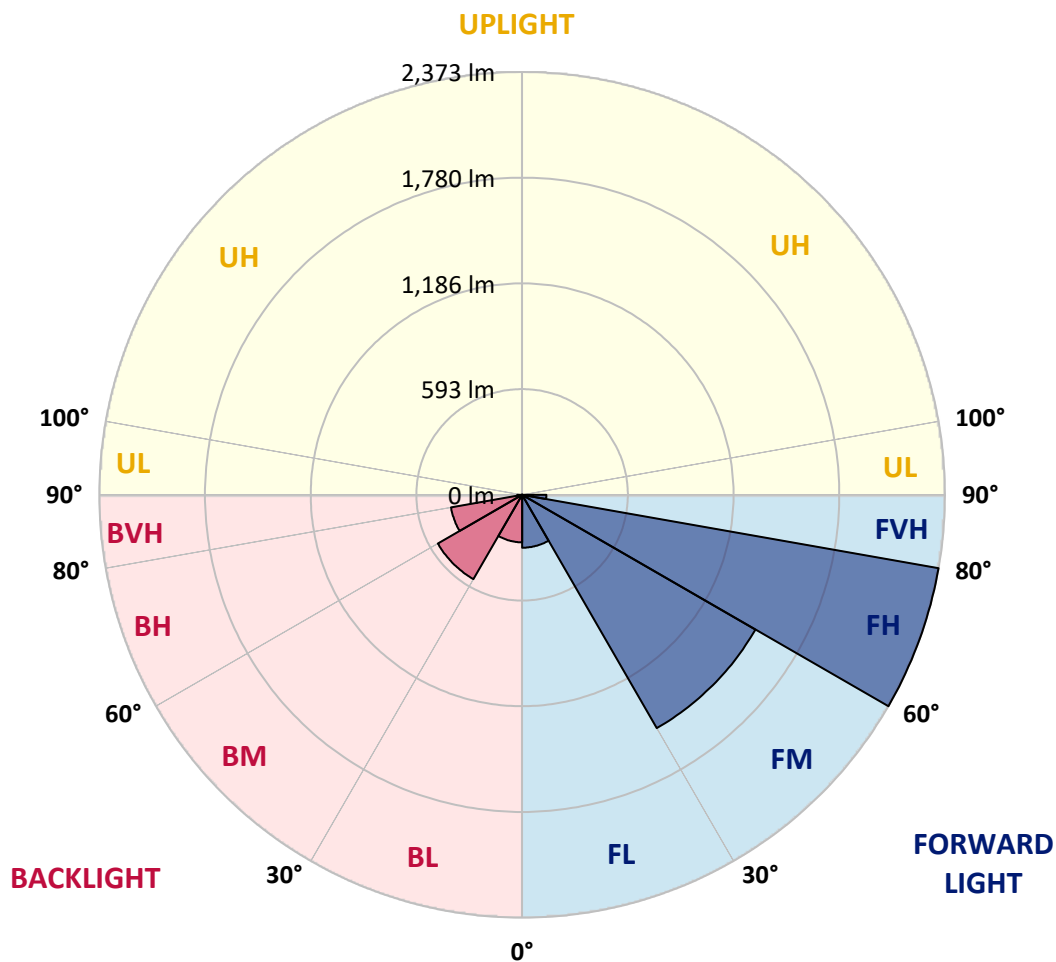
CATALOG NUMBER: PRV-P-PA1B-8540-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	297.0	5.3			
FM	(30°-60°)	1511.9	27.2			
FH	(60°-80°)	2373.0	42.6			G2/5000
FVH	(80°-90°)	136.0	2.4			G2/225
BL	(0°-30°)	266.7	4.8	B1/500		
BM	(30°-60°)	546.4	9.8	B1/1000		
BH	(60°-80°)	405.5	7.3	B1/500		G1/500
BVH	(80°-90°)	27.5	0.5			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 Medium



REPORT NUMBER: P511174

CATALOG NUMBER: PRV-P-PA1B-8540-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	623.1	623.1	623.1	623.1	623.1	623.1	623.1	623.1	623.1	623.1	623.1
2.5°	642.4	639.8	637.2	637.2	633.4	632.1	630.9	629.5	621.9	623.1	618.0
5°	662.8	659.0	656.4	653.9	646.2	634.7	630.9	629.5	616.8	609.1	605.3
7.5°	692.3	693.5	679.5	671.7	664.1	644.9	641.0	630.9	616.8	606.5	600.1
10°	722.9	719.1	707.6	693.5	678.2	656.4	650.0	641.0	629.5	615.4	607.8
12.5°	744.7	740.9	726.8	708.8	687.2	667.9	664.1	657.7	639.8	624.4	616.8
15°	757.5	761.3	744.7	719.1	694.8	680.7	673.1	669.2	653.9	637.2	623.1
17.5°	771.6	770.3	760.1	729.4	707.6	691.0	687.2	680.7	661.6	646.2	632.1
20°	778.0	783.1	774.2	739.6	714.0	698.7	699.9	694.8	676.9	657.7	642.4
22.5°	781.8	784.4	780.6	746.0	721.7	710.2	708.8	705.0	687.2	670.5	652.6
25°	780.6	781.8	788.2	747.3	729.4	720.4	720.4	715.3	701.2	685.8	667.9
27.5°	781.8	779.2	788.2	751.1	739.6	735.8	734.5	733.2	725.5	703.8	684.6
30°	776.7	784.4	786.9	756.2	755.0	753.6	755.0	756.2	747.3	724.2	703.8
32.5°	778.0	775.4	788.2	762.6	763.9	774.2	778.0	775.4	761.3	742.1	722.9
35°	799.8	806.1	808.7	774.2	772.8	779.2	788.2	785.7	781.8	767.7	756.2
37.5°	913.6	918.7	904.7	821.4	798.4	797.2	808.7	811.3	813.8	807.4	804.8
40°	1091.5	1085.1	1082.5	923.9	843.2	834.3	844.5	857.3	861.1	865.0	871.4
42.5°	1284.7	1292.3	1293.7	1068.4	948.1	894.4	899.5	916.2	938.0	943.0	971.2
45°	1458.7	1472.7	1500.9	1260.4	1091.5	994.3	976.3	990.4	1027.5	1059.5	1105.5
47.5°	1581.6	1590.5	1635.3	1461.2	1271.9	1100.4	1087.7	1087.7	1140.1	1183.6	1261.6
50°	1704.4	1699.3	1717.2	1667.2	1521.4	1259.1	1221.9	1211.8	1280.8	1342.3	1430.5
52.5°	1797.8	1806.8	1834.9	1855.4	1735.1	1431.9	1365.3	1338.5	1426.7	1500.9	1623.8
55°	1864.3	1868.2	1932.1	2012.8	1939.8	1585.4	1512.4	1493.3	1598.2	1682.7	1845.1
57.5°	1953.9	1982.1	2055.0	2202.1	2189.3	1730.0	1654.5	1669.8	1774.7	1866.9	2094.7
60°	2119.0	2110.0	2194.4	2392.8	2322.4	1886.1	1837.5	1846.4	1952.6	2080.6	2401.8
62.5°	2190.6	2194.4	2312.2	2634.6	2506.7	2053.7	2035.8	2056.2	2157.3	2284.0	2789.4
65°	2089.5	2117.7	2380.0	2667.9	2689.7	2271.2	2258.4	2290.4	2362.1	2528.4	3110.6
67.5°	1818.3	1851.6	2277.6	2751.1	2841.9	2496.4	2491.3	2511.8	2557.8	2724.2	3326.9
70°	1678.8	1712.0	1996.1	2786.9	2964.8	2763.8	2757.5	2748.5	2779.2	2913.5	3355.0
72.5°	1437.0	1452.3	1709.5	2638.5	3076.1	3085.0	3108.0	3039.0	2987.8	3028.7	3022.3
75°	845.8	843.2	1198.9	2051.1	2999.3	3383.2	3461.3	3342.2	3095.3	2889.3	2185.5
77.5°	291.7	280.2	408.2	935.4	2177.8	3273.1	3416.5	3241.2	2813.8	2285.3	1216.9
80°	81.9	88.3	131.8	312.2	1014.7	2019.1	2300.7	2428.6	1834.9	961.0	363.4
82.5°	37.1	38.4	69.1	127.9	374.9	990.4	1026.2	870.1	620.6	243.1	89.6
85°	10.3	10.3	21.8	46.0	127.9	229.0	250.8	220.1	127.9	81.9	30.7
87.5°	1.3	1.3	1.3	2.6	3.8	6.4	5.1	14.1	11.5	10.3	5.1
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: P511174

CATALOG NUMBER: PRV-P-PA1B-8540-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	623.1	623.1	623.1	623.1	623.1	623.1	623.1	623.1	623.1	623.1	623.1
2.5°	619.3	618.0	615.4	614.2	612.9	612.9	612.9	614.2	611.6	616.8	616.8
5°	603.9	602.7	598.8	601.4	601.4	606.5	609.1	611.6	615.4	618.0	619.3
7.5°	597.6	598.8	597.6	595.0	597.6	602.7	612.9	621.9	625.7	629.5	630.9
10°	605.3	605.3	601.4	606.5	607.8	612.9	620.6	630.9	642.4	646.2	646.2
12.5°	610.3	611.6	609.1	619.3	621.9	628.3	633.4	638.5	648.7	655.1	656.4
15°	616.8	615.4	619.3	628.3	633.4	638.5	642.4	639.8	650.0	655.1	655.1
17.5°	625.7	627.0	632.1	643.6	646.2	647.5	646.2	639.8	647.5	652.6	655.1
20°	634.7	637.2	644.9	653.9	653.9	648.7	643.6	637.2	641.0	647.5	652.6
22.5°	646.2	650.0	655.1	661.6	655.1	643.6	637.2	630.9	634.7	644.9	648.7
25°	656.4	660.2	660.2	657.7	641.0	630.9	628.3	628.3	629.5	641.0	642.4
27.5°	674.3	674.3	665.4	647.5	618.0	601.4	607.8	612.9	624.4	633.4	636.0
30°	693.5	688.4	670.5	630.9	584.7	568.1	575.8	589.9	605.3	618.0	625.7
32.5°	717.9	714.0	678.2	611.6	549.0	527.2	534.9	555.3	577.1	592.4	595.0
35°	753.6	744.7	685.8	586.1	502.8	482.4	486.2	509.3	532.3	549.0	557.9
37.5°	799.8	790.8	692.3	552.8	455.5	433.8	432.5	454.2	472.1	487.5	493.9
40°	879.1	857.3	698.7	510.5	409.4	383.9	383.9	391.6	397.9	408.2	413.3
42.5°	980.2	941.8	708.8	461.9	364.6	341.6	332.7	336.5	328.9	319.9	321.2
45°	1117.0	1050.6	729.4	412.0	323.7	303.3	295.6	285.3	270.0	253.4	254.6
47.5°	1277.0	1168.2	743.5	367.2	287.9	272.6	264.9	252.0	230.4	212.4	211.1
50°	1461.2	1297.5	761.3	327.6	255.9	252.0	247.0	227.8	203.4	186.8	184.2
52.5°	1654.5	1422.9	779.2	298.2	234.2	240.5	231.6	211.1	184.2	167.6	166.3
55°	1873.2	1582.8	815.1	267.4	217.5	227.8	221.4	198.3	171.5	160.0	158.6
57.5°	2130.5	1751.7	870.1	243.1	203.4	211.1	209.8	189.4	171.5	163.8	163.8
60°	2400.4	1969.2	897.0	225.2	189.4	198.3	208.6	193.2	180.4	174.0	172.7
62.5°	2665.3	2175.3	816.4	209.8	179.2	194.5	214.9	209.8	190.7	189.4	188.1
65°	2863.7	2328.8	618.0	194.5	171.5	202.2	243.1	226.5	198.3	195.8	194.5
67.5°	2960.9	2406.9	413.3	183.0	165.1	211.1	268.7	234.2	194.5	188.1	181.7
70°	2840.6	2285.3	275.1	168.9	154.8	207.3	285.3	235.4	186.8	177.9	168.9
72.5°	2426.0	1971.8	209.8	156.1	144.6	199.6	289.2	229.0	179.2	161.2	154.8
75°	1718.5	1360.1	168.9	140.8	127.9	189.4	286.7	218.8	166.3	147.1	142.0
77.5°	875.2	610.3	131.8	121.5	108.8	177.9	275.1	179.2	125.4	108.8	106.2
80°	243.1	181.7	102.3	96.0	84.5	147.1	211.1	143.3	101.1	89.6	84.5
82.5°	84.5	76.8	70.4	61.4	60.1	119.0	181.7	116.4	74.2	55.0	53.7
85°	30.7	29.4	33.3	33.3	34.5	61.4	94.7	52.5	32.0	23.0	21.8
87.5°	3.8	3.8	5.1	3.8	5.1	1.3	1.3	1.3	1.3	1.3	1.3
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)