

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: P511100

Luminaire Tested: **PRV-P-PA1A-8540-U-T3**

Issue Date: 4/7/2021

Test Information

Test Method: LM-79-08
Report Number: P511100
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-171-5)
Test Lab: INNOVATION CENTER
Issue Date: 4/7/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-P-PA1A-8540-U-T3
Description: PREVAIL AREA AND WALL LUMINAIRE
(1) 85 CRI, 4000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3478.8 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Luminous Opening: Rectangular (W 1.04' x L: 0.58' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 30.7
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

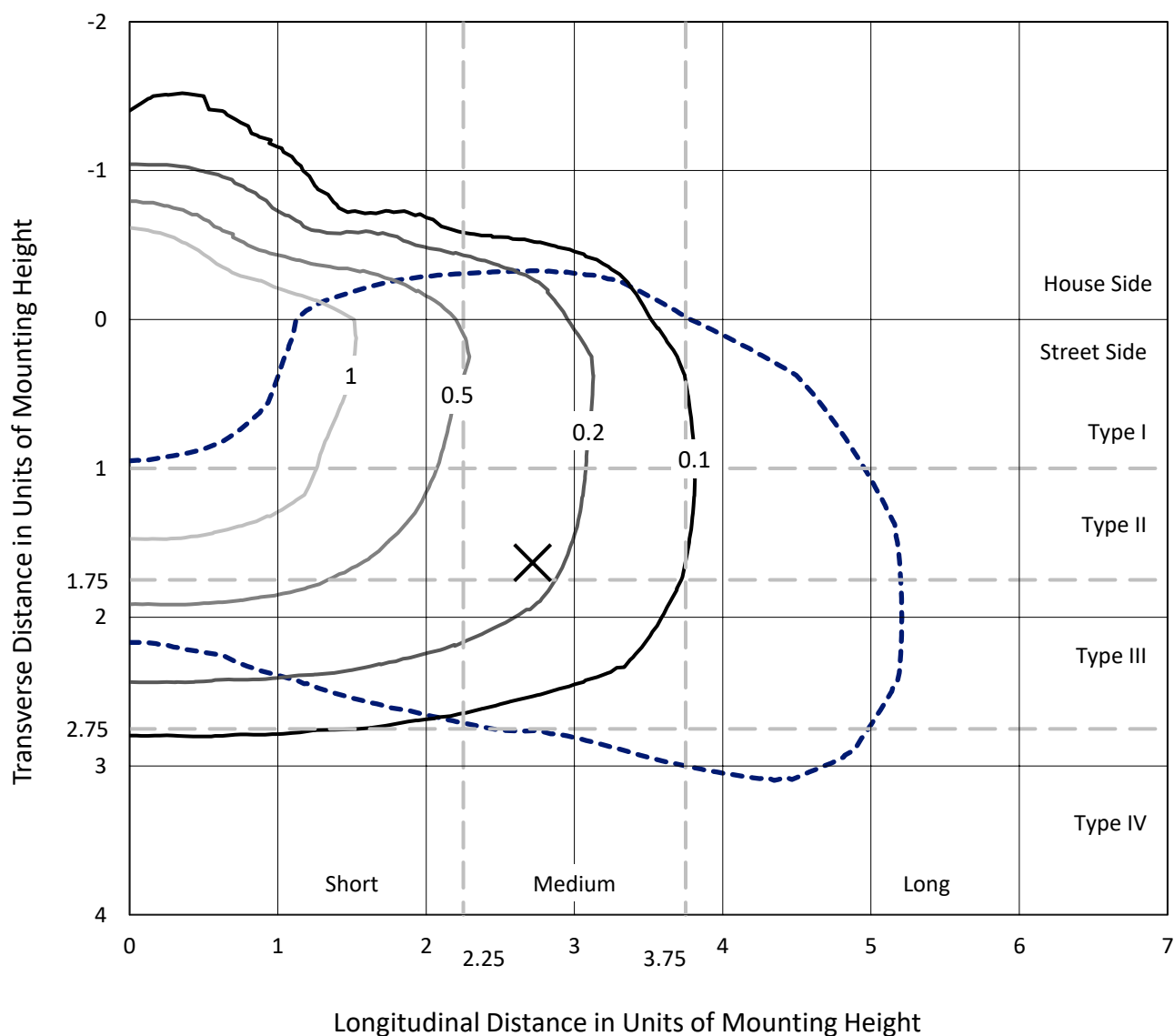


REPORT NUMBER: P511100

CATALOG NUMBER: PRV-P-PA1A-8540-U-T3

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

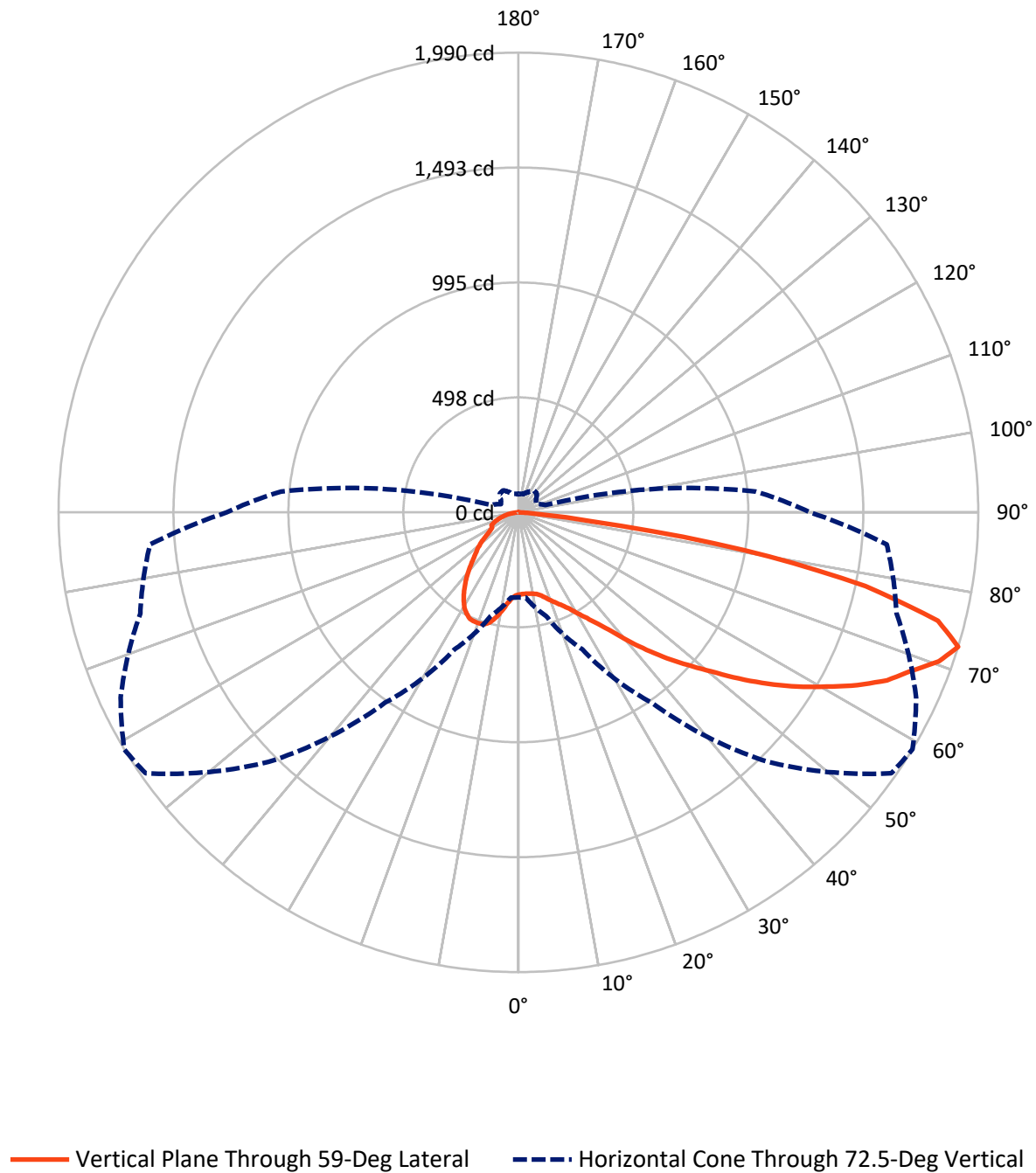


Based on 15 foot mounting height. Maximum calculated value = 2 fc
 Type IV - Medium - N/A

REPORT NUMBER: P511100

CATALOG NUMBER: PRV-P-PA1A-8540-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P511100

CATALOG NUMBER: PRV-P-PA1A-8540-U-T3

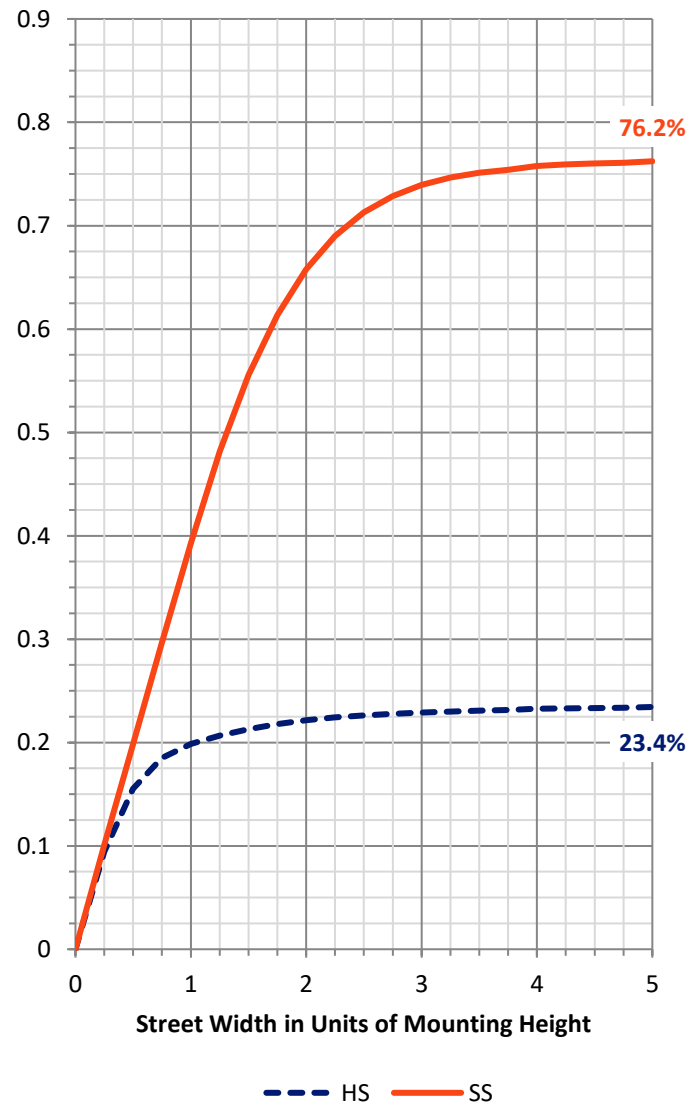
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	823.0	0.0	823.0
	% Fixture	23.7	0.0	23.7
Street Side	Lumens	2655.9	0.0	2655.9
	% Fixture	76.3	0.0	76.3
Total	Lumens	3478.8	0.0	3478.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.6	1.0
10°-20°	117.4	3.4
20°-30°	216.8	6.2
30°-40°	329.9	9.5
40°-50°	497.1	14.3
50°-60°	738.5	21.2
60°-70°	878.9	25.3
70°-80°	594.9	17.1
80°-90°	69.8	2.0
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°	3478.8	100.0
0°-180°	3478.8	100.0

Coefficient of Utilization



REPORT NUMBER: P511100

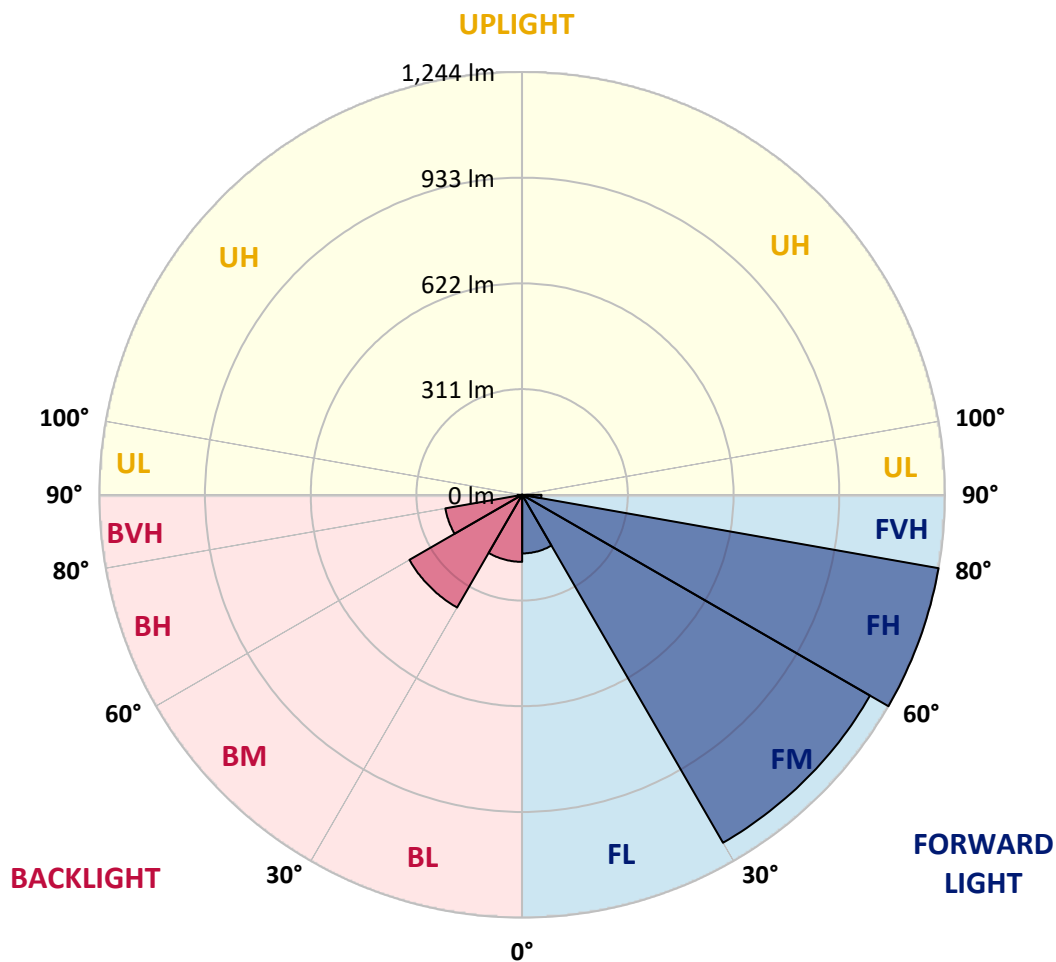
CATALOG NUMBER: PRV-P-PA1A-8540-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	172.4	5.0			
FM	(30°-60°)	1182.4	34.0			
FH	(60°-80°)	1244.4	35.8			G1/1800
FVH	(80°-90°)	56.7	1.6			G1/100
BL	(0°-30°)	197.4	5.7	B1/500		
BM	(30°-60°)	383.1	11.0	B1/1000		
BH	(60°-80°)	229.5	6.6	B1/500		G1/500
BVH	(80°-90°)	13.1	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-G1

Type IV Medium



REPORT NUMBER: P511100

CATALOG NUMBER: PRV-P-PA1A-8540-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	356.3	356.3	356.3	356.3	356.3	356.3	356.3	356.3	356.3	356.3	356.3
2.5°	352.4	353.9	353.1	353.1	353.9	353.9	355.5	353.9	356.3	355.5	354.7
5°	338.3	337.5	339.0	341.4	344.5	350.0	353.1	353.9	355.5	357.8	357.8
7.5°	311.6	312.4	315.5	321.0	329.6	342.2	354.7	355.5	360.2	365.7	368.8
10°	305.4	306.2	307.7	315.5	324.2	338.3	354.7	358.6	367.2	375.8	383.7
12.5°	302.2	303.8	305.4	314.8	327.3	341.4	358.6	363.3	375.8	389.9	401.7
15°	304.6	305.4	307.7	315.5	328.9	347.7	366.4	374.3	386.8	404.8	419.7
17.5°	314.0	314.0	312.4	319.5	331.2	354.7	379.0	389.9	403.2	422.0	440.8
20°	336.7	336.7	333.6	329.6	337.5	361.0	394.6	408.7	424.4	444.0	462.0
22.5°	383.7	382.9	373.5	359.4	356.3	372.7	411.1	426.7	447.9	468.2	483.9
25°	452.6	452.6	436.1	412.6	396.2	394.6	428.3	447.9	474.5	494.1	504.3
27.5°	531.7	528.5	506.6	480.0	448.7	431.4	454.9	472.9	503.5	523.0	525.4
30°	593.5	596.6	576.3	539.5	502.7	480.0	488.6	508.2	541.1	555.9	550.4
32.5°	669.5	661.6	644.4	610.0	567.7	535.6	534.0	545.8	573.9	591.9	577.1
35°	720.4	718.0	706.3	675.7	631.1	597.4	580.2	593.5	620.1	628.7	610.7
37.5°	773.6	775.2	767.3	739.2	701.6	656.2	643.6	650.7	678.1	682.8	659.3
40°	846.4	848.0	843.3	815.1	768.9	734.5	723.5	730.5	755.6	754.8	719.6
42.5°	938.0	938.8	941.2	898.9	849.6	815.9	808.8	813.5	841.7	832.3	794.7
45°	1056.3	1050.8	1053.1	1012.4	952.9	916.1	904.4	901.2	920.8	920.8	880.1
47.5°	1146.3	1150.2	1155.7	1127.5	1076.6	1045.3	999.9	988.1	1006.2	1011.6	970.1
50°	1225.4	1237.1	1234.0	1241.1	1199.6	1187.0	1107.2	1082.1	1104.8	1107.9	1068.8
52.5°	1276.3	1298.2	1302.1	1328.8	1339.7	1356.2	1216.8	1194.9	1204.3	1205.0	1172.9
55°	1275.5	1293.5	1338.1	1399.2	1456.4	1499.4	1335.0	1310.0	1309.2	1309.2	1287.3
57.5°	1252.8	1264.5	1347.5	1425.8	1535.5	1604.4	1455.6	1423.5	1410.2	1411.7	1409.4
60°	1190.2	1210.5	1325.6	1432.9	1596.5	1674.8	1553.5	1532.3	1520.6	1496.3	1554.3
62.5°	1131.4	1137.7	1244.2	1414.9	1606.7	1705.4	1667.0	1647.4	1634.1	1586.4	1670.9
65°	1008.5	1012.4	1113.4	1317.0	1569.1	1724.9	1764.1	1753.1	1724.9	1669.4	1767.2
67.5°	835.5	848.0	932.6	1167.5	1468.9	1733.6	1840.8	1833.0	1797.8	1706.2	1810.3
70°	617.0	627.2	731.3	940.4	1295.9	1688.1	1939.5	1930.9	1858.8	1723.4	1760.2
72.5°	368.0	370.4	464.3	654.6	1005.4	1527.6	1970.0	1990.4	1899.6	1694.4	1600.5
75°	150.3	140.9	183.2	314.8	614.7	1129.9	1828.3	1875.3	1854.1	1587.9	1321.7
77.5°	70.5	69.7	93.2	162.1	260.0	581.8	1473.6	1536.2	1571.5	1365.6	1003.0
80°	39.9	40.7	53.2	82.2	148.8	155.8	878.5	992.8	1009.3	871.5	577.1
82.5°	32.9	32.9	36.0	45.4	83.8	69.7	159.7	315.5	448.7	395.4	208.3
85°	12.5	13.3	15.7	18.8	39.2	26.6	34.5	47.8	79.9	111.2	18.8
87.5°	0.8	0.8	0.8	1.6	1.6	2.3	3.1	3.9	3.1	3.9	3.1
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: P511100

CATALOG NUMBER: PRV-P-PA1A-8540-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	356.3	356.3	356.3	356.3	356.3	356.3	356.3	356.3	356.3	356.3	356.3
2.5°	357.0	357.8	358.6	359.4	361.0	363.3	364.9	364.9	366.4	368.8	369.6
5°	359.4	361.7	364.9	369.6	375.8	382.1	389.2	393.1	396.2	399.3	399.3
7.5°	370.4	373.5	382.1	391.5	404.0	414.2	420.5	428.3	432.2	435.3	435.3
10°	389.2	392.3	407.9	424.4	438.5	450.2	453.4	455.7	458.8	462.0	458.1
12.5°	406.4	417.3	435.3	453.4	472.1	476.1	471.4	458.8	452.6	451.8	448.7
15°	426.7	440.0	465.1	483.1	498.0	485.5	459.6	456.5	459.6	465.9	466.7
17.5°	450.2	460.4	489.4	511.3	504.3	476.1	475.3	475.3	476.8	477.6	475.3
20°	469.0	486.2	517.6	530.1	496.4	486.2	480.8	474.5	472.1	472.1	471.4
22.5°	491.7	505.8	539.5	531.7	494.9	485.5	472.1	464.3	464.3	468.2	466.7
25°	511.3	531.7	561.4	525.4	494.1	472.1	457.3	454.1	455.7	462.0	460.4
27.5°	530.9	554.4	573.9	517.6	476.1	448.7	439.3	438.5	430.6	432.2	430.6
30°	557.5	576.3	574.7	514.4	447.9	425.2	415.8	393.1	381.3	387.6	387.6
32.5°	579.4	599.8	568.5	490.2	417.3	402.5	366.4	343.7	339.8	343.7	348.4
35°	613.1	630.3	564.5	457.3	386.0	359.4	315.5	300.7	296.8	299.1	301.5
37.5°	660.9	667.1	579.4	415.8	357.8	304.6	273.3	262.3	252.1	242.7	245.9
40°	721.1	714.1	596.6	384.5	319.5	259.2	241.9	228.6	209.8	195.8	195.0
42.5°	787.7	757.9	598.2	357.8	275.6	228.6	213.0	196.5	177.0	161.3	159.7
45°	865.2	815.9	585.7	334.3	233.3	207.5	190.3	170.7	151.9	139.4	140.2
47.5°	956.8	876.2	568.5	307.7	207.5	187.9	168.3	151.1	136.2	126.1	126.8
50°	1055.5	934.1	548.9	276.4	186.4	168.3	151.1	137.0	125.3	118.2	117.4
52.5°	1162.0	999.9	540.3	237.2	167.6	154.3	139.4	129.2	118.2	108.1	105.7
55°	1277.9	1061.7	545.8	191.1	149.6	141.7	133.1	120.6	120.6	117.4	115.1
57.5°	1382.8	1122.0	566.9	161.3	135.5	137.0	131.5	144.9	148.8	144.1	141.7
60°	1479.9	1183.9	566.1	139.4	128.4	148.8	166.0	161.3	138.6	129.2	126.1
62.5°	1546.4	1236.4	501.9	123.7	133.9	177.7	170.7	143.3	122.9	119.0	116.7
65°	1588.7	1259.8	376.6	115.1	138.6	167.6	152.7	127.6	113.5	114.3	113.5
67.5°	1569.9	1241.8	256.0	103.4	122.9	144.1	138.6	117.4	103.4	109.6	107.3
70°	1465.0	1175.3	168.3	94.0	108.8	129.2	127.6	106.5	94.0	96.3	93.2
72.5°	1261.4	1031.2	121.4	83.0	92.4	112.8	115.9	96.3	82.2	80.6	78.3
75°	1009.3	795.5	89.3	72.0	76.7	94.7	101.8	84.6	72.0	68.1	66.6
77.5°	725.8	515.2	68.1	59.5	61.9	77.5	88.5	70.5	57.9	53.2	51.7
80°	400.9	249.8	50.9	46.2	44.6	57.9	65.0	58.7	44.6	41.5	39.9
82.5°	140.2	74.4	35.2	29.8	28.2	40.7	47.0	43.1	30.5	25.8	26.6
85°	16.4	21.1	14.9	14.1	12.5	16.4	21.1	16.4	9.4	8.6	8.6
87.5°	2.3	2.3	2.3	1.6	1.6	0.8	0.8	0.8	0.8	0.8	0.8
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)