

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: P511096

Luminaire Tested: **PRV-P-PA1A-8540-U-T2R**

Issue Date: 4/7/2021

Test Information

Test Method: LM-79-08
Report Number: P511096
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-171-1)
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-T2R
Description: PREVAIL AREA AND WALL LUMINAIRE
(1) 85 CRI, 4000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3527.4 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 1.04' x L: 0.58' x H: 0')
IES Classification: Type II - 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



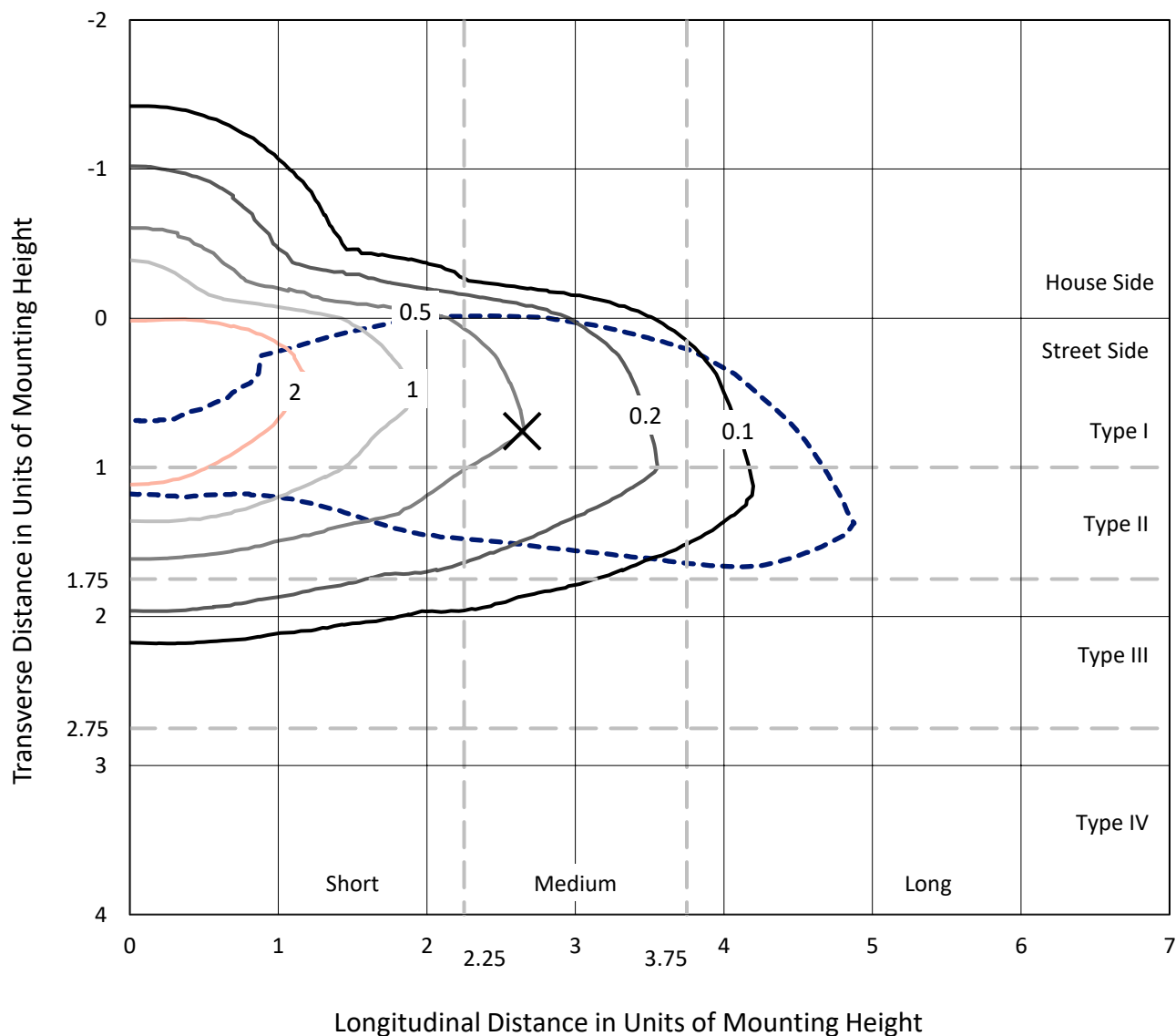
REPORT NUMBER: P511096

CATALOG NUMBER: PRV-P-PA1A-8540-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

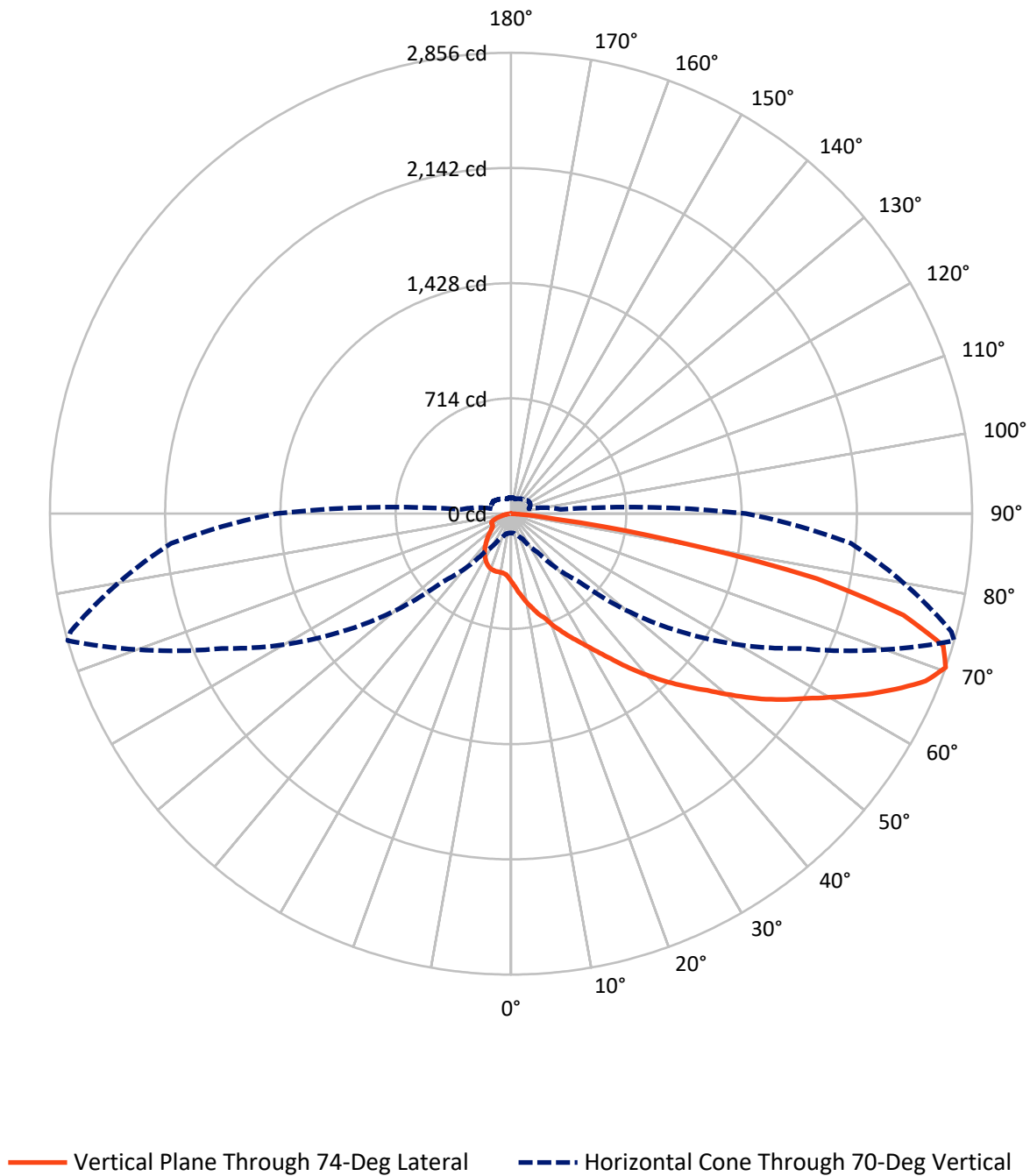


Based on 15 foot mounting height. Maximum calculated value = 3.7 fc
 Type II - Medium - N/A

REPORT NUMBER: P511096

CATALOG NUMBER: PRV-P-PA1A-8540-U-T2R

Luminous Intensity Polar Plot



REPORT NUMBER: P511096

CATALOG NUMBER: PRV-P-PA1A-8540-U-T2R

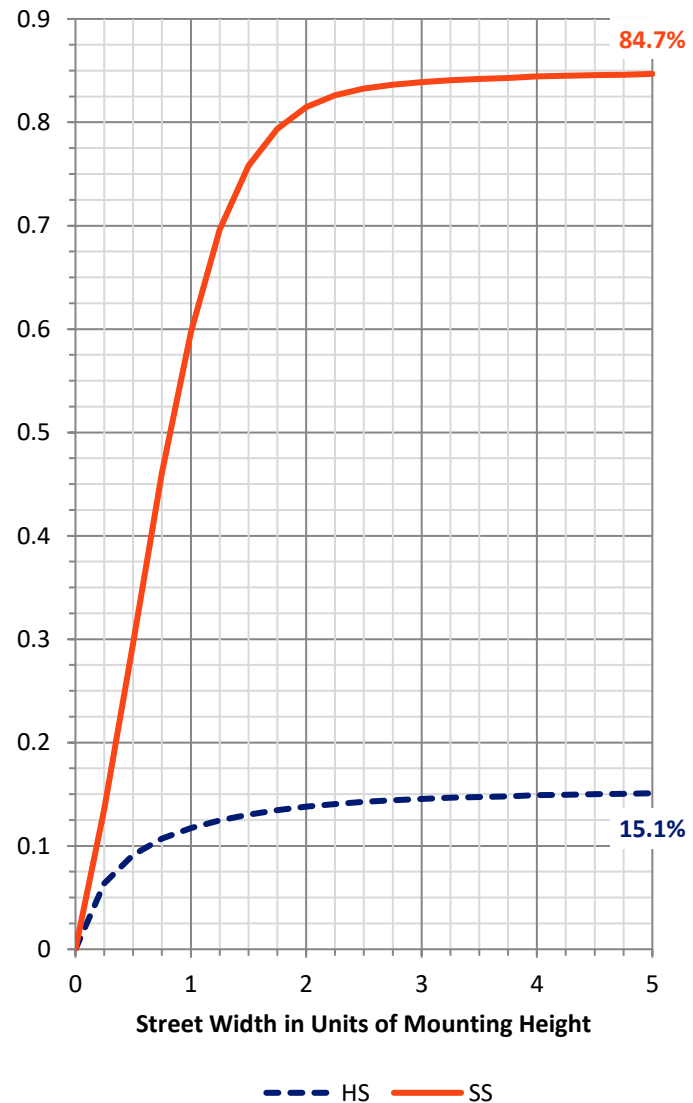
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	536.6	0.0	536.6
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	2990.8	0.0	2990.8
	% Fixture	84.8	0.0	84.8
Total	Lumens	3527.4	0.0	3527.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.2	1.3
10°-20°	147.7	4.2
20°-30°	274.6	7.8
30°-40°	463.1	13.1
40°-50°	656.6	18.6
50°-60°	754.7	21.4
60°-70°	704.2	20.0
70°-80°	436.6	12.4
80°-90°	45.6	1.3
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°	3527.4	100.0
0°-180°	3527.4	100.0

Coefficient of Utilization



REPORT NUMBER: P511096

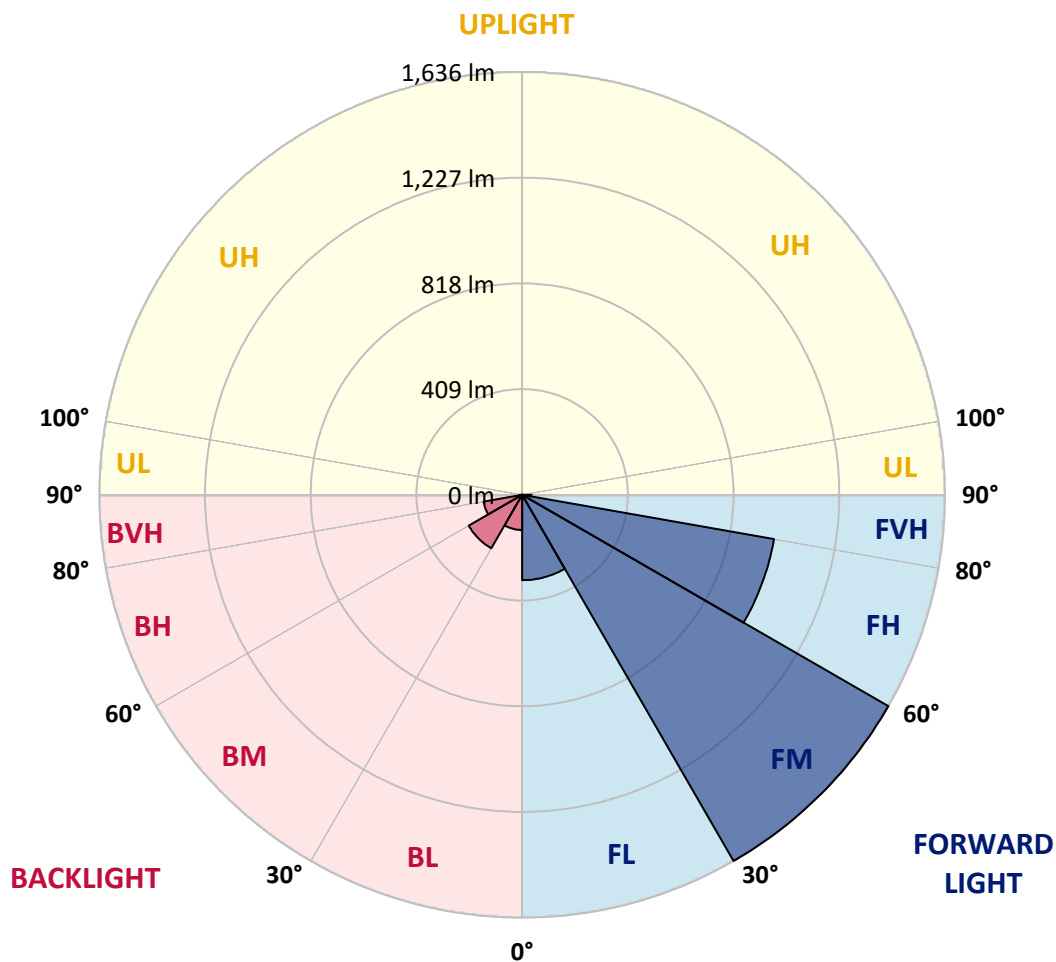
CATALOG NUMBER: PRV-P-PA1A-8540-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	330.3	9.4			
FM	(30°-60°)	1635.8	46.4			
FH	(60°-80°)	989.3	28.0			G1/1800
FVH	(80°-90°)	35.3	1.0			G1/100
BL	(0°-30°)	136.2	3.9	B1/500		
BM	(30°-60°)	238.6	6.8	B1/1000		
BH	(60°-80°)	151.5	4.3	B1/500		G1/500
BVH	(80°-90°)	10.3	0.3			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 II Medium



REPORT NUMBER: P511096

CATALOG NUMBER: PRV-P-PA1A-8540-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	421.3	421.3	421.3	421.3	421.3	421.3	421.3	421.3	421.3	421.3	421.3
2.5°	527.8	531.0	528.6	523.9	515.3	497.3	485.5	472.2	450.3	450.3	433.9
5°	600.6	600.6	596.7	592.0	584.2	565.4	547.4	520.0	487.9	484.8	448.7
7.5°	634.3	634.3	634.3	633.5	630.4	615.5	595.2	561.5	523.9	520.8	463.6
10°	663.3	660.9	661.7	663.3	660.1	658.6	641.4	609.3	565.4	560.7	491.8
12.5°	693.0	688.3	689.9	693.0	695.4	689.9	677.4	651.5	603.0	599.9	516.1
15°	713.4	713.4	715.7	722.0	725.1	725.9	716.5	696.9	646.1	638.2	545.8
17.5°	728.3	727.5	732.2	743.1	754.9	759.6	762.7	740.8	681.3	678.2	574.0
20°	746.3	746.3	752.5	768.2	783.1	796.4	805.0	795.6	737.7	726.7	610.8
22.5°	798.0	798.0	797.2	805.8	820.7	830.8	844.9	844.2	787.0	773.7	645.3
25°	922.5	927.9	903.7	875.5	874.7	878.6	881.7	906.0	842.6	832.4	682.1
27.5°	1101.8	1107.3	1070.4	1025.8	964.0	935.0	922.5	964.0	898.2	888.8	716.5
30°	1270.2	1260.0	1240.4	1191.9	1104.9	1024.2	975.7	1021.1	963.2	943.6	744.7
32.5°	1384.5	1377.5	1360.2	1314.8	1243.6	1146.5	1043.0	1075.1	1037.6	1019.5	789.3
35°	1447.9	1445.6	1427.6	1405.6	1366.5	1287.4	1137.9	1141.0	1125.3	1109.7	840.2
37.5°	1501.2	1495.7	1476.9	1455.8	1440.9	1400.2	1263.1	1202.8	1226.3	1196.6	894.3
40°	1537.2	1532.5	1518.4	1496.5	1494.1	1489.4	1393.1	1284.3	1324.2	1295.2	956.9
42.5°	1554.4	1549.7	1546.6	1526.2	1530.9	1552.1	1516.8	1380.6	1426.8	1393.1	1027.4
45°	1563.8	1559.9	1557.5	1541.9	1546.6	1590.4	1616.3	1491.0	1529.4	1498.8	1100.2
47.5°	1544.2	1540.3	1554.4	1548.1	1559.9	1615.5	1679.7	1606.1	1635.8	1596.7	1184.1
50°	1450.3	1462.8	1502.7	1527.0	1552.1	1625.7	1740.0	1723.5	1765.0	1717.3	1278.0
52.5°	1194.2	1215.4	1353.2	1455.0	1527.0	1626.4	1779.9	1839.4	1902.9	1870.0	1372.8
55°	945.9	970.2	1086.1	1285.8	1455.0	1611.6	1797.9	1913.1	2032.9	1985.9	1471.4
57.5°	802.7	816.7	862.2	1046.2	1302.3	1566.9	1834.7	1969.5	2159.7	2127.6	1572.4
60°	676.6	678.9	726.7	842.6	1081.4	1458.9	1856.7	2012.5	2305.4	2263.1	1684.4
62.5°	514.5	532.5	581.1	672.7	864.5	1278.0	1864.6	2056.4	2466.7	2433.0	1815.2
65°	321.8	333.6	390.0	509.0	682.9	1039.1	1775.2	2100.2	2620.2	2594.4	1946.0
67.5°	173.0	182.4	223.2	310.9	490.2	812.0	1560.7	2086.9	2769.8	2749.4	2065.8
70°	119.8	120.6	130.0	174.6	297.5	592.8	1268.6	1975.7	2855.9	2824.6	2112.8
72.5°	99.4	101.0	105.7	115.9	159.7	364.9	919.3	1761.1	2799.5	2756.5	2013.3
75°	84.6	85.3	90.0	95.5	108.1	192.6	585.0	1451.8	2509.7	2466.7	1697.7
77.5°	69.7	71.3	75.2	82.2	90.0	110.4	304.6	1129.2	1938.2	1885.7	1117.5
80°	49.3	50.1	54.8	62.6	73.6	77.5	117.4	676.6	1008.6	926.4	426.0
82.5°	29.0	30.5	36.8	43.1	54.0	46.2	54.8	256.8	283.4	254.5	88.5
85°	7.0	8.6	12.5	17.2	21.9	15.7	24.3	50.1	58.7	54.0	16.4
87.5°	0.8	0.8	0.8	0.8	1.6	2.3	3.9	3.9	3.9	3.1	2.3
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: P511096

CATALOG NUMBER: PRV-P-PA1A-8540-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	421.3	421.3	421.3	421.3	421.3	421.3	421.3	421.3	421.3	421.3	421.3
2.5°	422.9	415.1	398.6	383.7	372.8	363.3	359.4	350.8	349.2	346.1	346.9
5°	426.8	409.6	380.6	359.4	348.4	339.8	335.1	334.3	335.1	334.3	335.1
7.5°	436.2	411.2	374.4	350.8	343.0	339.0	337.5	337.5	339.8	339.0	338.3
10°	449.5	417.4	372.0	350.0	345.3	343.7	342.2	343.0	343.7	345.3	339.8
12.5°	468.3	425.2	370.4	350.8	345.3	343.0	340.6	340.6	342.2	339.0	340.6
15°	483.2	435.4	372.0	348.4	342.2	338.3	334.3	332.8	331.2	330.4	329.6
17.5°	504.3	446.4	370.4	346.1	335.9	328.1	320.2	317.1	315.5	314.0	313.2
20°	528.6	453.4	368.0	339.8	324.9	313.2	304.6	298.3	292.8	292.1	289.7
22.5°	549.0	465.2	361.7	329.6	310.9	296.0	283.4	277.2	270.1	266.2	263.9
25°	578.7	477.7	352.4	314.8	292.1	278.0	260.7	252.9	245.1	239.6	239.6
27.5°	598.3	481.6	342.2	298.3	273.3	251.3	235.7	225.5	218.5	214.5	214.5
30°	625.7	491.0	325.7	281.9	251.3	231.8	212.2	202.8	196.5	190.3	187.9
32.5°	653.9	497.3	311.6	261.5	230.2	206.7	191.8	186.4	176.2	168.3	166.8
35°	691.5	506.7	293.6	241.2	207.5	189.5	183.2	170.7	156.6	148.8	147.2
37.5°	736.9	516.9	273.3	218.5	188.7	178.5	175.4	155.0	144.1	140.9	140.9
40°	788.6	524.7	251.3	197.3	169.1	172.3	164.4	145.6	138.6	137.0	136.2
42.5°	843.4	531.7	231.0	175.4	157.4	162.9	153.5	142.5	136.2	134.7	133.1
45°	902.9	533.3	210.6	158.9	147.2	149.6	145.6	138.6	133.1	132.3	131.5
47.5°	967.9	534.9	188.7	144.1	140.9	137.0	139.4	133.1	130.0	129.2	128.4
50°	1047.7	531.0	168.3	134.7	136.2	129.2	132.3	128.4	127.6	126.1	124.5
52.5°	1118.3	518.4	152.7	130.0	133.1	127.6	126.8	125.3	125.3	122.1	120.6
55°	1185.6	501.2	142.5	127.6	129.2	125.3	124.5	122.9	122.1	118.2	117.4
57.5°	1249.0	476.1	136.2	128.4	127.6	123.7	123.7	121.4	117.4	115.9	114.3
60°	1334.4	455.0	133.9	130.0	126.1	122.9	122.9	119.0	115.1	112.8	112.0
62.5°	1414.3	432.3	133.1	133.1	126.8	122.1	121.4	117.4	112.0	111.2	109.6
65°	1495.7	404.1	132.3	137.0	128.4	122.1	119.8	114.3	108.1	108.1	106.5
67.5°	1512.9	368.9	126.8	137.8	130.0	121.4	116.7	109.6	102.6	104.1	101.0
70°	1455.8	308.5	115.1	132.3	133.9	121.4	111.2	102.6	94.0	101.0	94.7
72.5°	1283.5	243.5	96.3	115.9	130.8	121.4	104.9	93.2	82.2	81.4	76.0
75°	1013.3	163.6	74.4	90.8	119.0	121.4	95.5	81.4	69.7	63.4	63.4
77.5°	613.2	108.1	57.2	64.2	95.5	112.0	83.8	63.4	52.5	48.5	47.0
80°	202.0	60.3	42.3	44.6	59.5	81.4	71.3	50.1	38.4	33.7	29.8
82.5°	54.8	32.1	27.4	25.1	29.8	60.3	56.4	32.9	23.5	19.6	14.9
85°	13.3	13.3	12.5	11.0	9.4	18.0	21.9	7.8	4.7	2.3	2.3
87.5°	2.3	2.3	2.3	2.3	1.6	0.8	0.8	0.0	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)