

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: P511098

Luminaire Tested: **PRV-P-PA1A-8540-U-T2U**

Issue Date: 4/7/2021

Test Information

Test Method: LM-79-08
Report Number: P511098
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-171-3)
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-T2U
Description: PREVAIL AREA AND WALL LUMINAIRE
(1) 85 CRI, 4000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3520.3 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Rectangular (W 1.04' x L: 0.58' x H: 0')
IES Classification: Type II - Short
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

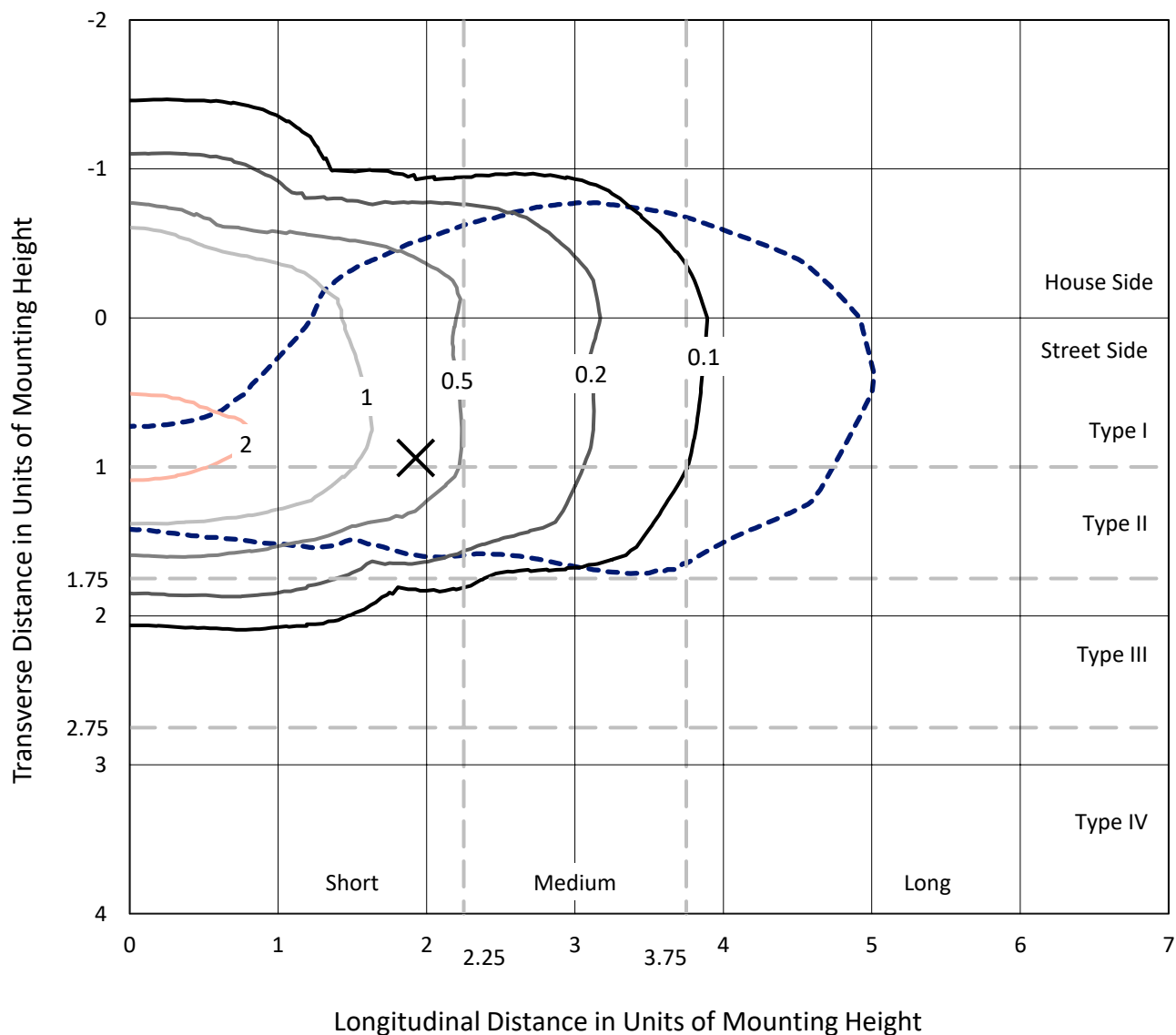


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

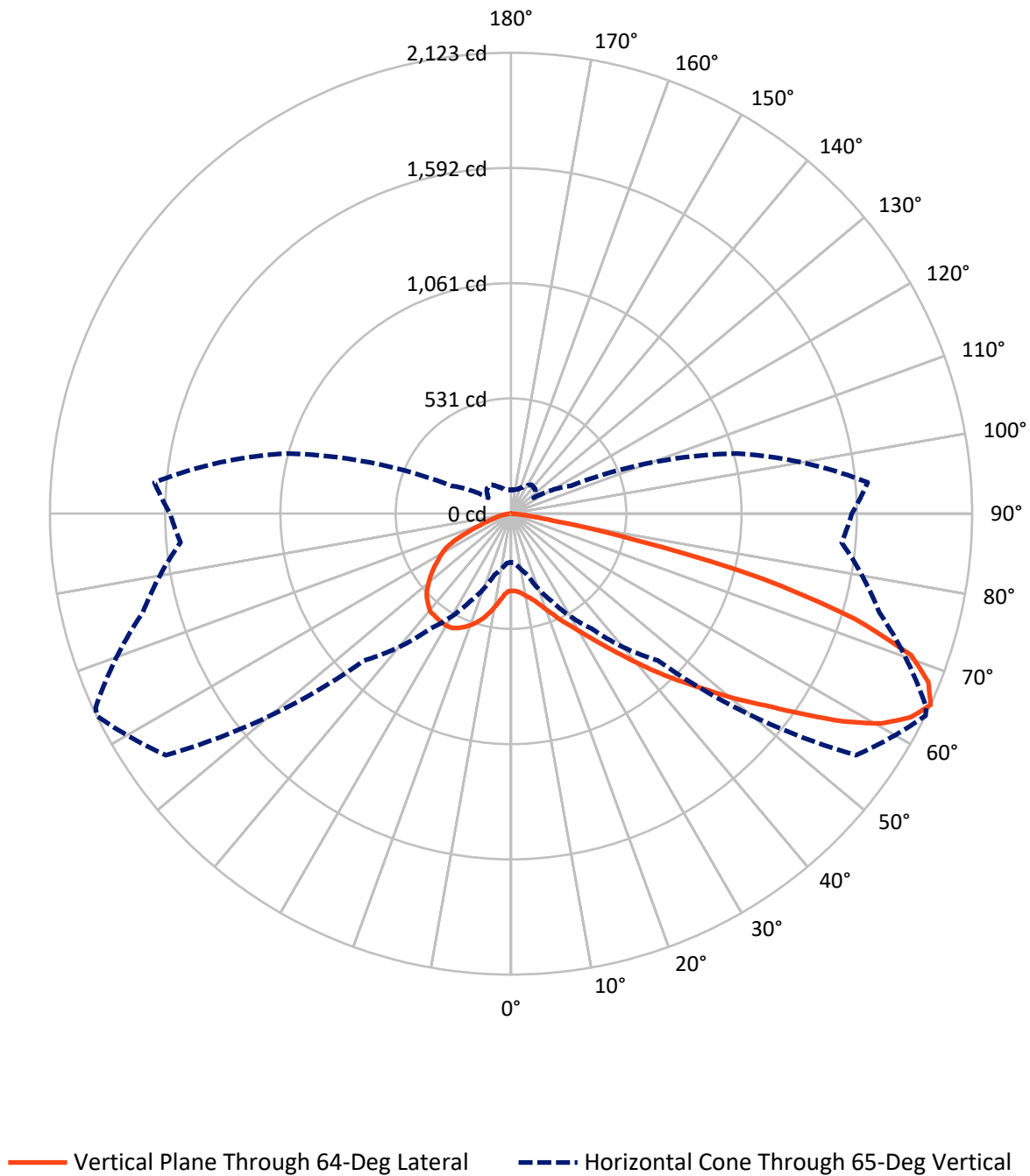


Based on 15 foot mounting height. Maximum calculated value = 2.5 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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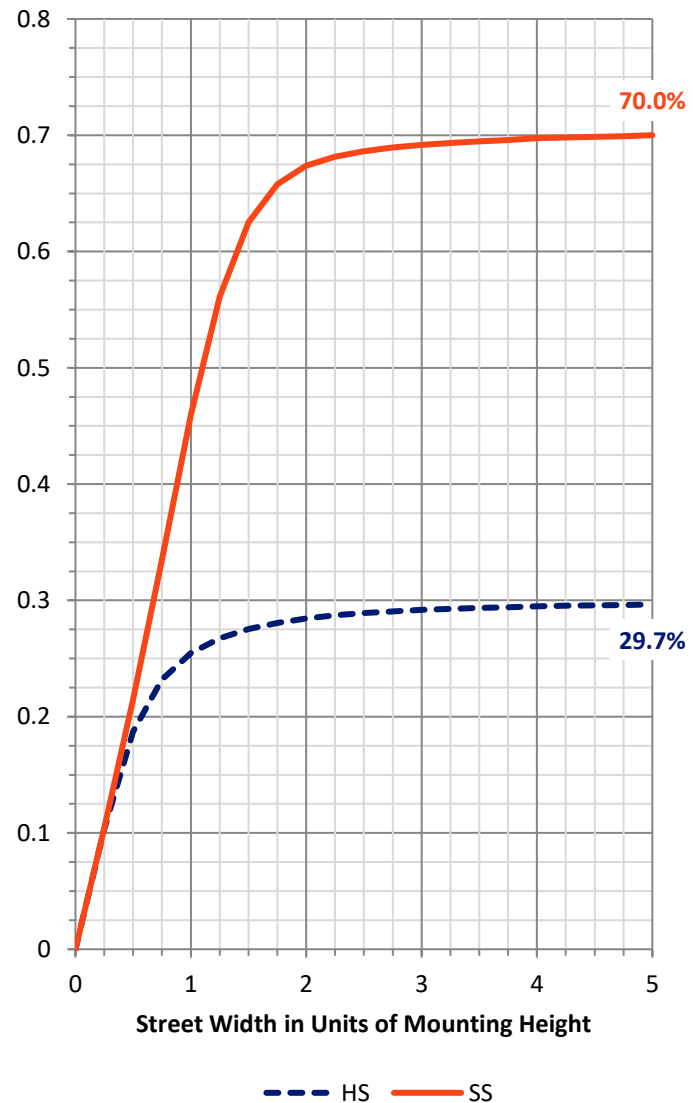
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1051.9	0.0	1051.9
	% Fixture	29.9	0.0	29.9
Street Side	Lumens	2468.4	0.0	2468.4
	% Fixture	70.1	0.0	70.1
Total	Lumens	3520.3	0.0	3520.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.6	1.0
10°-20°	127.4	3.6
20°-30°	246.7	7.0
30°-40°	394.3	11.2
40°-50°	632.1	18.0
50°-60°	828.2	23.5
60°-70°	752.4	21.4
70°-80°	449.4	12.8
80°-90°	53.3	1.5
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°	3520.3	100.0
0°-180°	3520.3	100.0

Coefficient of Utilization



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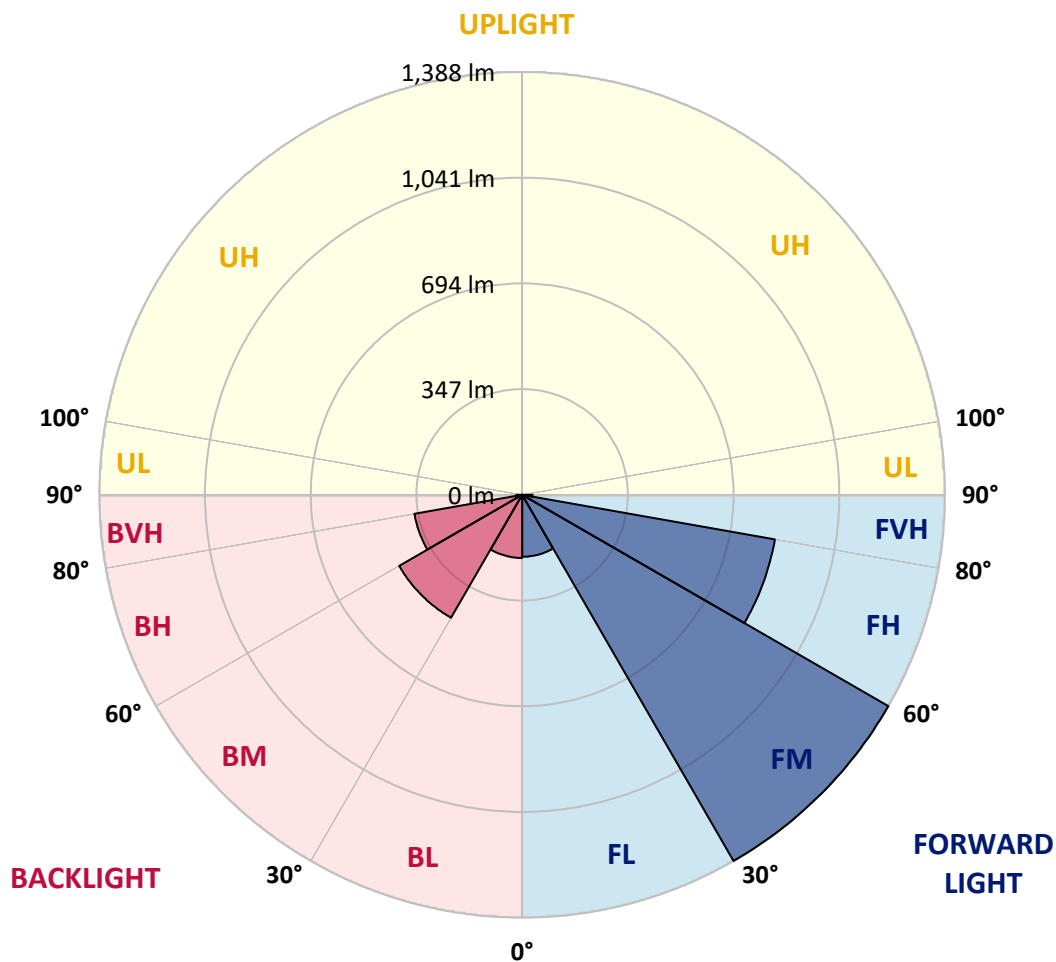
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	203.4	5.8			
FM	(30°-60°)	1388.3	39.4			
FH	(60°-80°)	842.6	23.9			G1/1800
FVH	(80°-90°)	34.2	1.0			G1/100
BL	(0°-30°)	207.3	5.9	B1/500		
BM	(30°-60°)	466.3	13.2	B1/1000		
BH	(60°-80°)	359.2	10.2	B1/500		G1/500
BVH	(80°-90°)	19.1	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	355.5	355.5	355.5	355.5	355.5	355.5	355.5	355.5	355.5	355.5	355.5
2.5°	356.3	355.5	357.8	357.8	357.8	357.0	356.3	357.0	357.0	356.3	357.0
5°	354.7	354.7	357.0	360.2	360.2	362.5	361.0	361.7	362.5	363.3	363.3
7.5°	344.5	346.9	349.2	353.9	358.6	364.9	368.8	371.9	372.7	375.8	378.2
10°	350.0	349.2	353.1	356.3	361.0	371.1	377.4	386.0	384.5	393.1	397.0
12.5°	360.2	360.2	363.3	368.8	375.1	384.5	389.2	399.3	400.1	407.9	415.9
15°	372.7	372.7	378.2	384.5	393.8	406.4	412.6	417.4	421.3	427.6	435.4
17.5°	395.4	398.5	399.3	405.6	413.4	429.2	439.3	443.3	443.3	448.7	455.8
20°	438.6	444.8	439.3	438.6	440.1	456.6	466.7	473.8	473.0	474.6	475.4
22.5°	497.3	501.2	495.7	489.5	480.1	490.2	499.6	507.5	502.8	502.8	495.7
25°	574.0	569.3	564.6	546.6	529.4	525.5	538.8	548.2	545.8	534.1	518.4
27.5°	653.9	647.6	636.7	617.1	588.9	574.0	577.1	585.0	588.1	568.5	543.5
30°	730.6	732.2	718.9	691.5	655.4	630.4	626.5	632.0	630.4	604.6	568.5
32.5°	839.5	829.3	818.3	780.7	727.5	697.7	685.2	686.0	686.0	647.6	597.5
35°	961.6	963.2	931.1	878.6	813.6	772.1	752.5	751.0	747.1	704.0	639.0
37.5°	1136.2	1125.2	1086.1	1014.1	921.7	862.9	829.3	824.6	820.7	768.2	691.5
40°	1288.2	1289.8	1249.0	1175.4	1057.1	960.0	919.3	910.7	909.1	838.7	751.8
42.5°	1390.0	1384.5	1382.9	1339.9	1223.9	1119.0	1029.7	1004.7	992.9	923.2	823.8
45°	1437.7	1440.1	1447.1	1455.0	1400.9	1300.7	1170.7	1103.3	1093.1	1009.4	902.1
47.5°	1465.9	1471.4	1493.3	1516.8	1541.1	1505.1	1316.4	1212.2	1203.5	1099.4	982.7
50°	1448.7	1444.8	1497.3	1563.0	1640.5	1711.0	1483.9	1339.1	1328.1	1209.0	1072.8
52.5°	1267.8	1286.6	1402.5	1549.7	1703.2	1840.2	1675.0	1466.7	1457.3	1312.5	1153.4
55°	1024.2	1038.3	1159.7	1393.1	1708.7	1922.4	1823.0	1626.4	1613.9	1415.8	1245.8
57.5°	776.8	813.6	949.1	1133.9	1546.6	1936.5	1937.3	1805.8	1763.5	1518.4	1328.9
60°	521.6	536.4	703.2	881.7	1241.9	1808.9	1995.2	1961.6	1927.9	1617.8	1405.6
62.5°	353.1	356.3	456.6	666.4	918.5	1507.4	1998.4	2065.7	2031.3	1698.5	1468.3
65°	223.2	229.4	290.5	446.4	646.1	956.9	1939.6	2122.9	2109.6	1754.9	1527.8
67.5°	169.9	171.5	198.1	270.1	451.9	575.6	1677.3	2072.0	2075.9	1796.4	1556.0
70°	144.9	147.2	169.1	187.1	310.9	309.3	1075.1	1954.5	1968.6	1811.2	1571.6
72.5°	115.1	119.0	143.3	172.3	227.9	210.6	459.7	1654.6	1696.9	1761.9	1559.9
75°	84.6	86.9	108.1	140.2	178.5	162.1	182.4	1194.9	1306.2	1545.8	1483.9
77.5°	60.3	64.2	80.6	104.1	162.1	117.4	113.5	588.9	707.9	1174.6	1275.7
80°	42.3	41.5	54.0	70.5	101.0	87.7	67.3	198.9	255.3	672.7	830.1
82.5°	21.1	21.9	31.3	43.8	57.2	69.7	37.6	79.1	91.6	276.4	310.1
85°	9.4	9.4	13.3	15.7	25.8	25.8	18.0	29.0	32.1	76.0	28.2
87.5°	0.0	0.8	0.8	1.6	1.6	2.3	3.1	3.9	4.7	4.7	3.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	355.5	355.5	355.5	355.5	355.5	355.5	355.5	355.5	355.5	355.5	355.5
2.5°	357.8	357.8	357.8	357.8	360.2	361.7	364.1	365.7	364.9	365.7	365.7
5°	364.9	365.7	368.8	372.7	378.2	382.9	390.7	392.3	396.2	394.6	398.5
7.5°	379.8	383.7	389.2	398.5	408.7	417.4	424.5	429.2	432.3	434.6	432.3
10°	401.7	406.4	417.4	430.7	443.3	455.0	459.7	464.4	463.6	461.3	460.5
12.5°	421.3	427.6	444.8	461.3	477.7	487.1	483.2	477.7	473.0	469.9	469.1
15°	441.7	450.3	469.1	492.6	505.9	505.1	494.2	485.5	484.8	483.2	481.6
17.5°	462.0	473.0	497.3	519.2	527.8	513.7	502.8	498.8	500.4	498.8	498.1
20°	480.8	491.0	519.2	542.7	538.8	520.0	512.9	509.8	505.9	503.5	502.0
22.5°	498.8	509.8	541.9	563.1	549.7	525.5	516.9	505.9	502.0	497.3	495.7
25°	516.1	528.6	560.7	581.8	549.7	523.1	505.1	491.0	482.4	477.7	477.7
27.5°	541.1	549.7	579.5	596.7	543.5	509.8	477.7	458.1	444.8	444.0	444.0
30°	559.9	564.6	595.2	602.2	529.4	479.3	438.6	409.5	395.4	391.5	390.7
32.5°	585.0	583.4	608.5	603.8	511.4	440.9	386.8	353.9	335.9	330.4	327.3
35°	616.3	614.0	635.9	602.2	486.3	395.4	329.6	292.1	279.5	270.1	270.9
37.5°	667.2	651.5	678.2	601.4	452.7	335.9	269.4	246.6	230.2	220.8	221.6
40°	720.4	697.7	725.9	603.0	413.4	277.2	228.6	212.2	196.5	182.4	184.0
42.5°	785.4	758.0	776.8	590.5	367.2	231.0	203.6	191.8	178.5	168.3	169.9
45°	858.2	819.1	824.6	577.9	314.8	205.9	195.8	187.1	175.4	162.1	162.9
47.5°	938.1	893.5	860.6	558.4	273.3	200.4	202.8	189.5	163.6	147.2	147.2
50°	1018.0	973.3	890.3	527.8	246.6	213.8	202.0	169.9	149.6	139.4	137.8
52.5°	1100.2	1071.2	907.6	497.3	238.8	213.0	185.6	160.5	143.3	131.5	130.0
55°	1191.8	1176.9	933.4	463.6	216.1	205.1	177.7	153.5	134.7	125.3	122.9
57.5°	1278.0	1298.4	957.7	427.6	184.8	187.1	169.1	148.0	131.5	124.5	122.9
60°	1376.7	1421.3	989.8	398.5	159.7	173.8	166.0	151.1	134.7	126.1	124.5
62.5°	1462.8	1538.0	1030.5	362.5	142.5	166.0	167.6	147.2	129.2	121.4	119.0
65°	1569.3	1648.4	1070.4	304.6	127.6	158.2	162.9	135.5	115.9	110.4	108.1
67.5°	1645.2	1716.5	1091.6	221.6	113.5	142.5	148.8	120.6	100.2	97.1	95.5
70°	1689.1	1700.0	1080.6	154.3	98.7	120.6	132.3	105.7	88.5	86.1	83.8
72.5°	1657.0	1588.9	1002.3	107.3	85.3	103.4	115.1	94.7	74.4	71.3	69.7
75°	1525.4	1377.5	805.0	79.1	74.4	87.7	97.1	79.9	59.5	54.0	53.2
77.5°	1239.6	1050.9	520.0	62.6	61.9	71.3	77.5	62.6	45.4	43.1	40.7
80°	753.3	642.1	220.8	47.0	47.0	51.7	57.2	49.3	34.5	29.8	29.0
82.5°	282.7	220.0	72.8	30.5	29.8	36.8	44.6	33.7	19.6	16.4	14.9
85°	21.1	25.8	26.6	14.9	13.3	14.9	18.0	9.4	5.5	3.9	3.9
87.5°	3.1	3.1	3.1	2.3	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)