

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: P511101

Luminaire Tested: **PRV-P-PA1A-8540-U-T4W-HSS**

Issue Date: 4/7/2021

Test Information

Test Method: LM-79-08
Report Number: P511101
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-171-8)
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-T4W-HSS
Description: PREVAIL AREA AND WALL LUMINAIRE
(1) 85 CRI, 4000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2598 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Luminous Opening: Rectangular (W 1.04' x L: 0.58' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B0 - 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

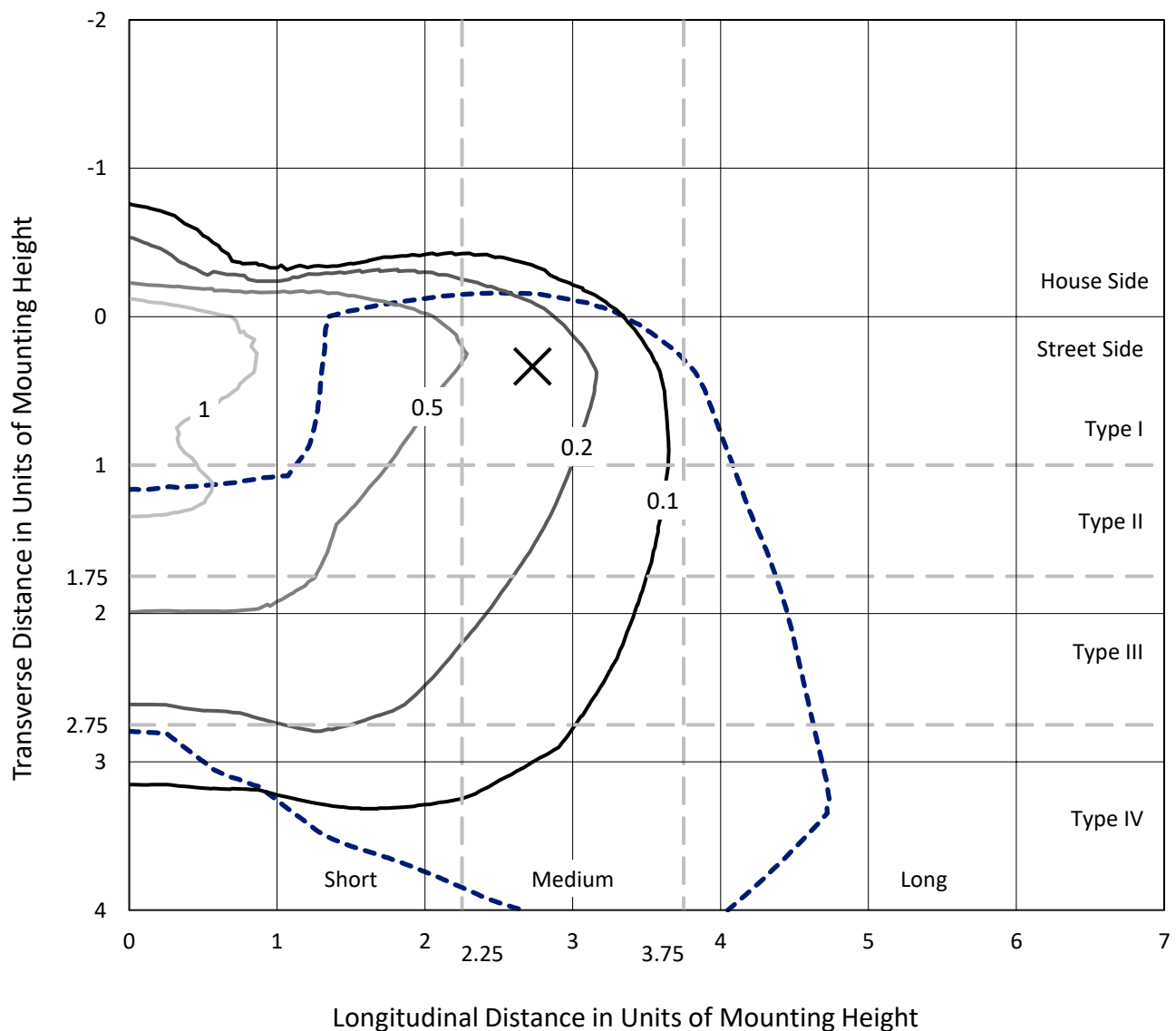


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

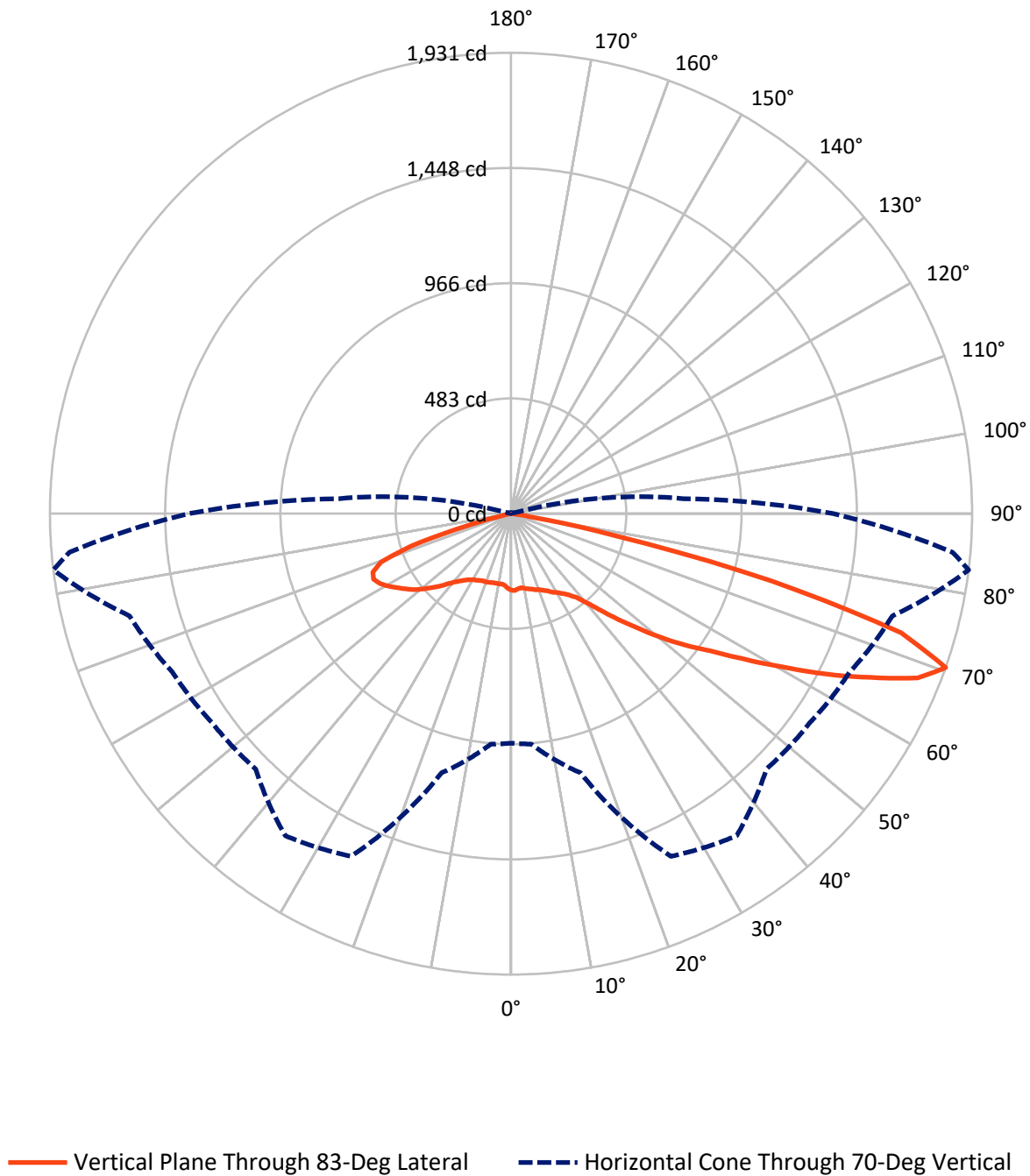


Based on 15 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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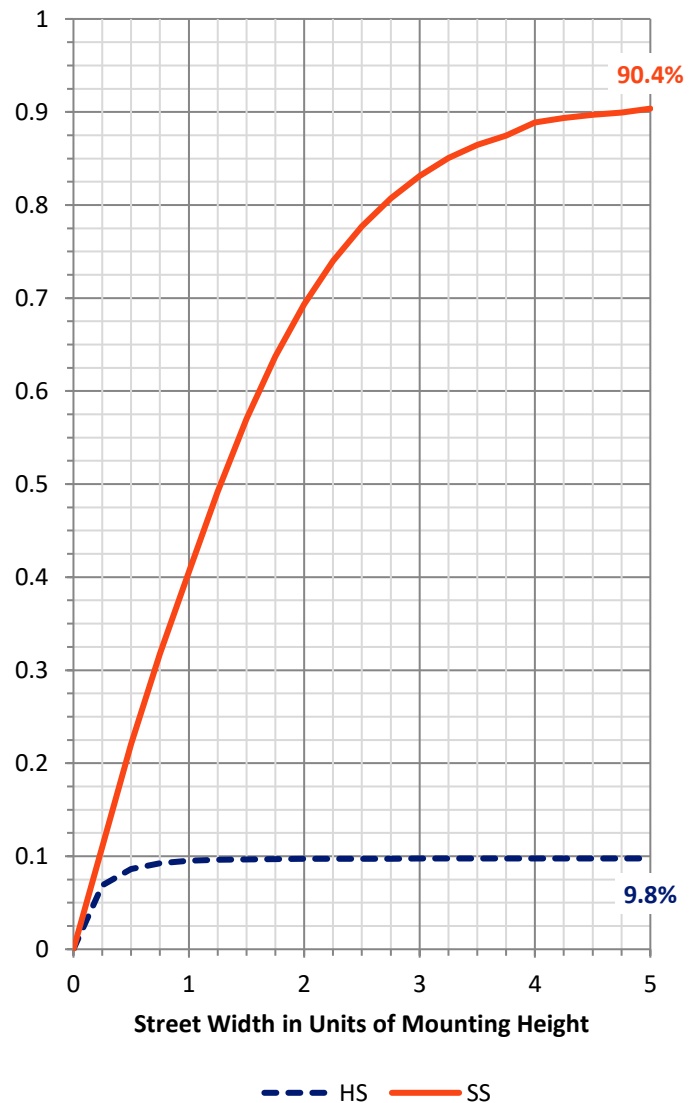
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	255.8	0.0	255.8
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	2342.2	0.0	2342.2
	% Fixture	90.2	0.0	90.2
Total	Lumens	2598.0	0.0	2598.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.1	1.1
10°-20°	77.7	3.0
20°-30°	123.0	4.7
30°-40°	173.9	6.7
40°-50°	285.1	11.0
50°-60°	503.5	19.4
60°-70°	743.1	28.6
70°-80°	613.3	23.6
80°-90°	49.4	1.9
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°	2598.0	100.0
0°-180°	2598.0	100.0

Coefficient of Utilization



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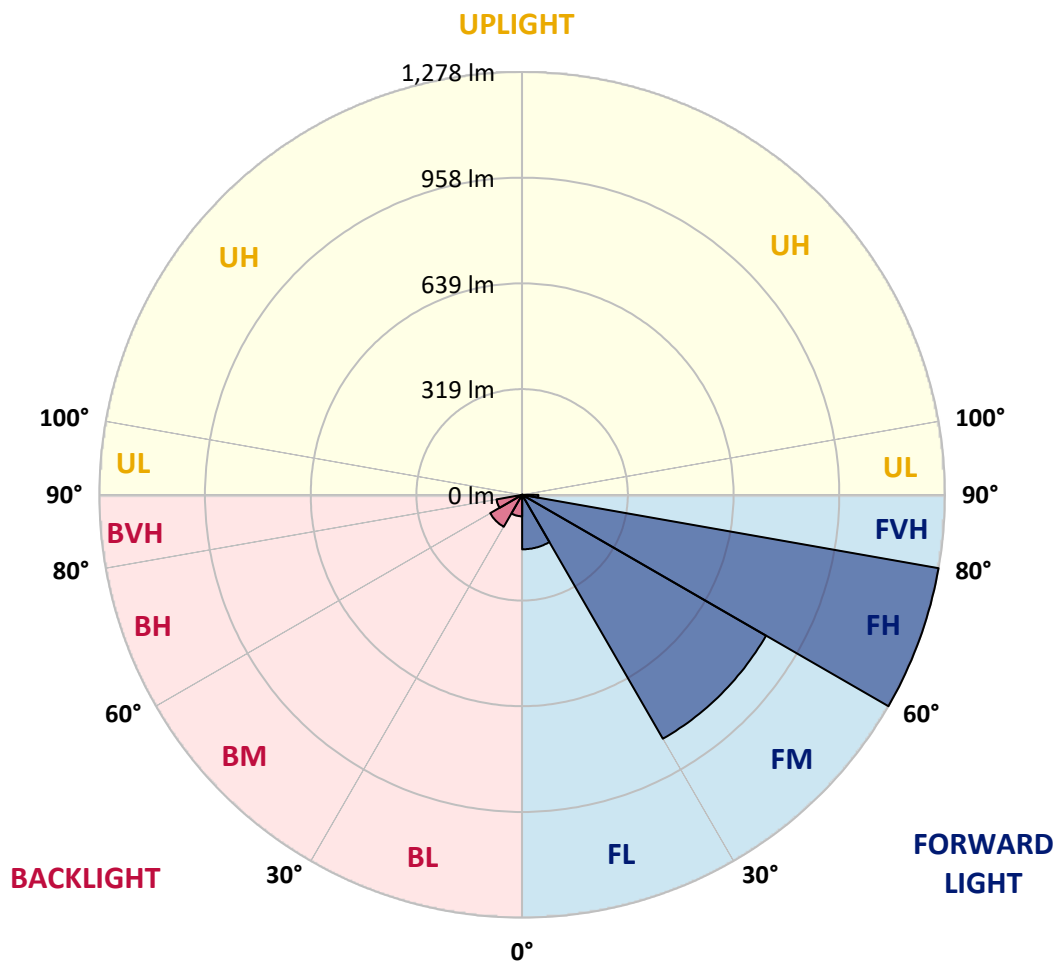
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	164.8	6.3			
FM	(30°-60°)	851.0	32.8			
FH	(60°-80°)	1277.7	49.2			G1/1800
FVH	(80°-90°)	48.7	1.9			G1/100
BL	(0°-30°)	64.9	2.5	B0/110		
BM	(30°-60°)	111.5	4.3	B0/220		
BH	(60°-80°)	78.7	3.0	B0/110		G0/110
BVH	(80°-90°)	0.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	83°	85°
0°	321.0	321.0	321.0	321.0	321.0	321.0	321.0	321.0	321.0	321.0	321.0
2.5°	341.4	341.4	339.8	339.8	335.9	334.3	330.4	327.3	323.4	321.8	319.5
5°	360.2	359.4	357.0	354.7	346.1	341.4	335.1	327.3	320.2	315.5	312.4
7.5°	379.0	378.2	375.8	369.6	360.2	351.6	340.6	331.2	320.2	313.2	311.6
10°	399.3	400.9	393.1	384.5	370.4	358.6	348.4	339.8	327.3	318.7	314.8
12.5°	417.3	414.2	407.2	396.2	379.8	366.4	358.6	347.7	334.3	323.4	319.5
15°	429.1	426.7	420.5	406.4	386.8	375.8	366.4	354.7	341.4	328.1	324.2
17.5°	437.7	437.7	430.6	411.9	392.3	385.2	375.1	364.1	347.7	335.1	331.2
20°	442.4	444.7	438.5	419.7	399.3	393.1	385.2	373.5	356.3	339.8	336.7
22.5°	444.7	446.3	446.3	422.8	404.8	400.1	393.8	382.9	363.3	349.2	344.5
25°	444.7	447.9	447.9	423.6	411.1	406.4	403.2	393.1	376.6	358.6	354.7
27.5°	447.9	446.3	449.4	426.7	418.1	417.3	415.8	408.7	389.9	372.7	366.4
30°	446.3	445.5	448.7	429.9	426.7	430.6	431.4	424.4	400.1	383.7	380.5
32.5°	457.3	454.1	451.0	433.0	436.1	444.7	444.7	437.7	415.0	399.3	396.2
35°	479.2	462.8	459.6	443.2	444.0	452.6	458.1	454.1	432.2	418.1	415.8
37.5°	480.8	474.5	482.3	458.1	458.1	467.5	478.4	477.6	462.8	445.5	445.5
40°	515.2	510.5	527.7	483.9	479.2	491.7	505.0	513.6	503.5	491.7	490.2
42.5°	613.9	608.4	615.4	521.5	509.7	530.1	547.3	563.8	558.3	555.1	553.6
45°	737.6	736.8	741.5	594.3	552.0	576.3	593.5	618.6	623.3	634.2	634.2
47.5°	877.7	865.2	858.2	712.5	615.4	620.1	653.8	687.5	711.7	717.2	725.8
50°	974.1	973.3	959.3	864.4	739.2	684.3	724.3	768.1	815.1	816.7	823.7
52.5°	1054.0	1052.4	1053.2	1020.3	880.9	765.0	804.1	864.4	909.9	914.6	920.9
55°	1090.8	1095.5	1120.6	1134.6	1038.3	867.6	897.3	956.9	1010.1	1015.6	1029.7
57.5°	1148.0	1145.6	1185.5	1253.7	1202.0	991.4	998.4	1059.5	1108.0	1148.7	1158.1
60°	1230.2	1220.0	1259.9	1366.4	1299.1	1098.6	1093.9	1158.1	1218.4	1301.4	1310.8
62.5°	1270.9	1254.4	1321.8	1517.5	1402.4	1200.4	1205.9	1260.7	1334.3	1480.7	1523.0
65°	1202.0	1194.9	1347.6	1516.0	1524.6	1295.2	1319.4	1362.5	1461.9	1654.6	1705.5
67.5°	1025.0	1032.9	1288.1	1563.7	1594.3	1400.9	1425.1	1485.4	1571.6	1837.0	1837.0
70°	961.6	968.6	1123.7	1584.1	1647.5	1512.8	1527.7	1566.1	1653.8	1931.0	1855.8
72.5°	819.0	831.5	1001.5	1530.1	1716.4	1624.8	1598.2	1625.6	1639.7	1708.6	1566.9
75°	313.2	330.4	640.5	1184.8	1692.9	1748.5	1655.3	1550.4	1382.1	1129.9	1014.8
77.5°	61.1	62.6	148.8	563.8	1218.4	1649.1	1526.1	1194.9	779.1	441.6	429.1
80°	24.3	25.8	44.6	166.8	559.1	953.0	997.6	601.3	248.2	90.8	76.0
82.5°	10.2	10.2	21.1	58.7	195.8	242.7	345.3	191.8	65.8	22.7	19.6
85°	1.6	1.6	7.0	21.1	31.3	18.0	84.6	38.4	32.1	8.6	7.0
87.5°	0.0	0.0	0.8	0.8	1.6	1.6	2.3	3.1	4.7	1.6	1.6
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°	321.0	321.0	321.0	321.0	321.0	321.0	321.0	321.0	321.0	321.0	321.0
2.5°	318.7	315.5	310.1	306.2	303.8	301.5	300.7	296.0	297.5	296.8	296.8
5°	309.3	304.6	297.5	288.9	284.2	279.5	274.0	269.4	266.2	263.9	268.6
7.5°	305.4	299.9	286.6	275.6	264.7	252.1	241.2	231.0	225.5	221.6	221.6
10°	307.7	301.5	285.0	267.0	244.3	217.7	196.5	177.7	170.7	166.8	160.5
12.5°	310.9	302.2	281.9	253.7	218.5	177.7	146.4	123.7	115.1	110.4	109.6
15°	315.5	303.8	278.7	235.7	184.0	133.9	97.9	84.6	85.3	88.5	89.3
17.5°	320.2	307.7	274.0	215.3	148.0	96.3	78.3	76.0	78.3	83.0	83.8
20°	324.9	313.2	267.8	190.3	112.0	76.0	72.0	72.0	74.4	79.1	79.9
22.5°	332.0	316.3	257.6	159.7	83.8	69.7	68.9	69.7	71.3	75.2	76.7
25°	342.2	323.4	245.1	129.2	69.7	66.6	66.6	65.8	66.6	70.5	72.0
27.5°	351.6	333.6	232.6	97.9	61.9	61.9	62.6	61.9	61.9	65.0	66.6
30°	364.9	343.7	214.5	72.8	57.2	56.4	57.2	57.2	57.2	59.5	61.1
32.5°	382.1	358.6	195.8	58.7	52.5	50.9	50.9	52.5	52.5	54.0	54.8
35°	405.6	378.2	173.8	51.7	48.5	46.2	44.6	46.2	47.8	48.5	49.3
37.5°	436.9	404.0	150.3	47.8	45.4	42.3	39.9	39.9	40.7	42.3	43.8
40°	487.8	433.8	121.4	45.4	43.1	38.4	35.2	34.5	34.5	35.2	36.0
42.5°	553.6	471.4	90.8	43.8	41.5	34.5	31.3	29.0	27.4	27.4	28.2
45°	631.9	516.0	67.3	41.5	40.7	31.3	27.4	24.3	20.4	19.6	20.4
47.5°	723.5	554.4	50.1	38.4	37.6	27.4	23.5	18.8	14.1	14.1	14.1
50°	817.5	596.6	40.7	34.5	33.7	25.1	18.8	13.3	10.2	10.2	11.0
52.5°	912.3	637.4	36.8	31.3	30.5	22.7	14.1	9.4	7.8	8.6	8.6
55°	1001.5	669.5	35.2	29.0	27.4	19.6	11.0	7.0	6.3	7.0	7.0
57.5°	1102.5	703.9	32.9	26.6	22.7	14.9	8.6	6.3	5.5	6.3	6.3
60°	1203.5	739.2	29.8	24.3	18.0	11.0	7.0	5.5	4.7	5.5	5.5
62.5°	1298.3	772.0	25.1	20.4	14.1	8.6	6.3	4.7	3.9	4.7	5.5
65°	1372.7	792.4	18.0	15.7	11.0	7.8	5.5	3.9	3.1	3.9	4.7
67.5°	1405.6	782.2	13.3	11.7	8.6	6.3	4.7	3.1	2.3	3.1	3.9
70°	1349.2	723.5	9.4	8.6	6.3	5.5	3.9	2.3	1.6	2.3	3.1
72.5°	1093.9	548.1	7.8	7.0	4.7	4.7	3.9	2.3	1.6	1.6	1.6
75°	668.7	238.8	6.3	5.5	3.1	3.9	3.1	1.6	0.8	1.6	1.6
77.5°	245.1	53.2	4.7	3.1	2.3	3.1	2.3	1.6	0.8	0.8	0.8
80°	56.4	12.5	2.3	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8
82.5°	14.1	2.3	1.6	1.6	0.8	0.8	0.8	0.8	0.8	0.8	0.8
85°	5.5	1.6	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0
87.5°	1.6	1.6	1.6	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0
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)