

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: P511102

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

Issue Date: 4/7/2021

Test Information

Test Method: LM-79-08
Report Number: P511102
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-PA1A-8540-U-T4W
Description: PREVAIL AREA AND WALL LUMINAIRE
(1) 85 CRI, 4000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3404.5 lumens
Efficiency: N/A
Efficacy: 110.9 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

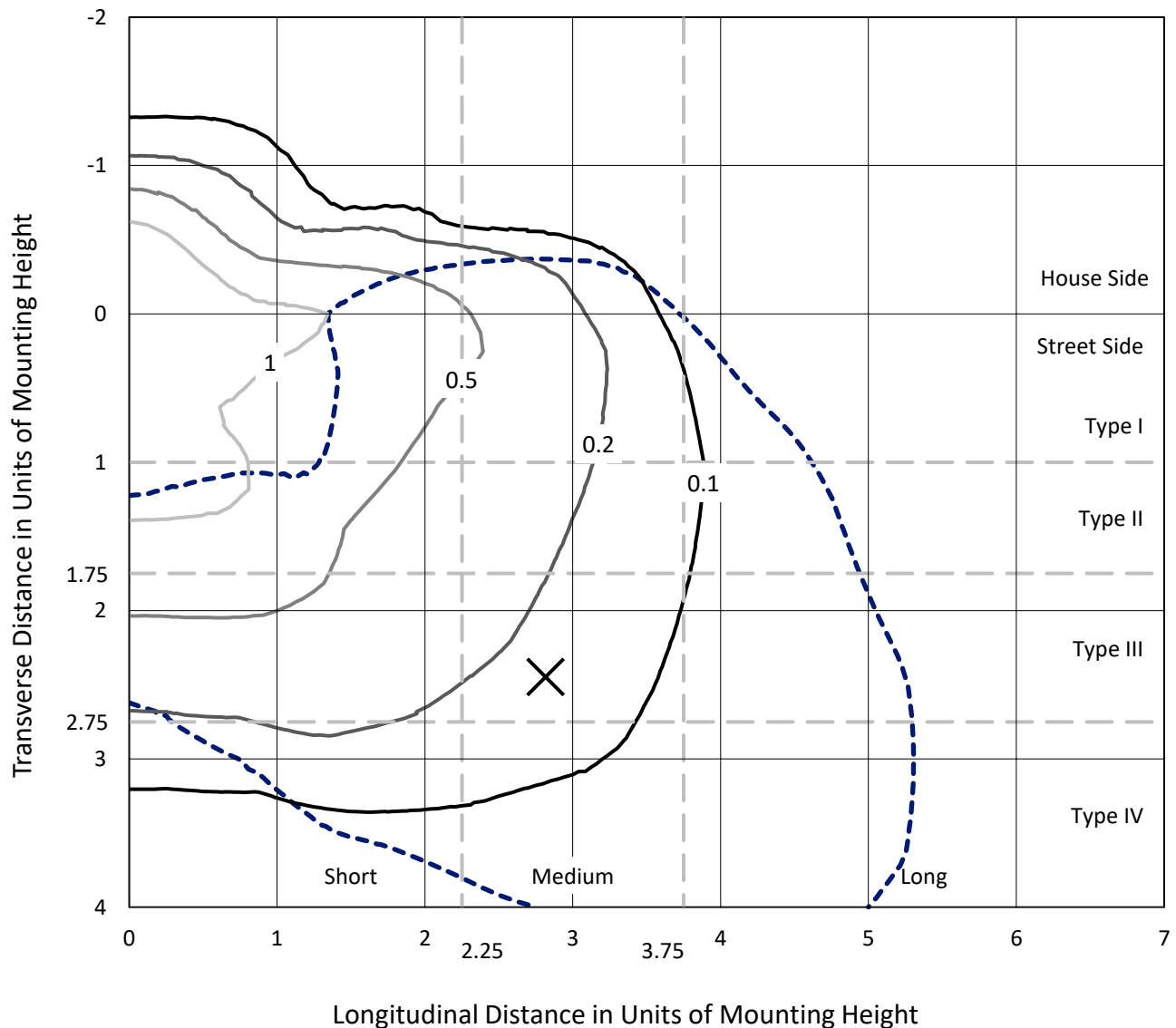


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

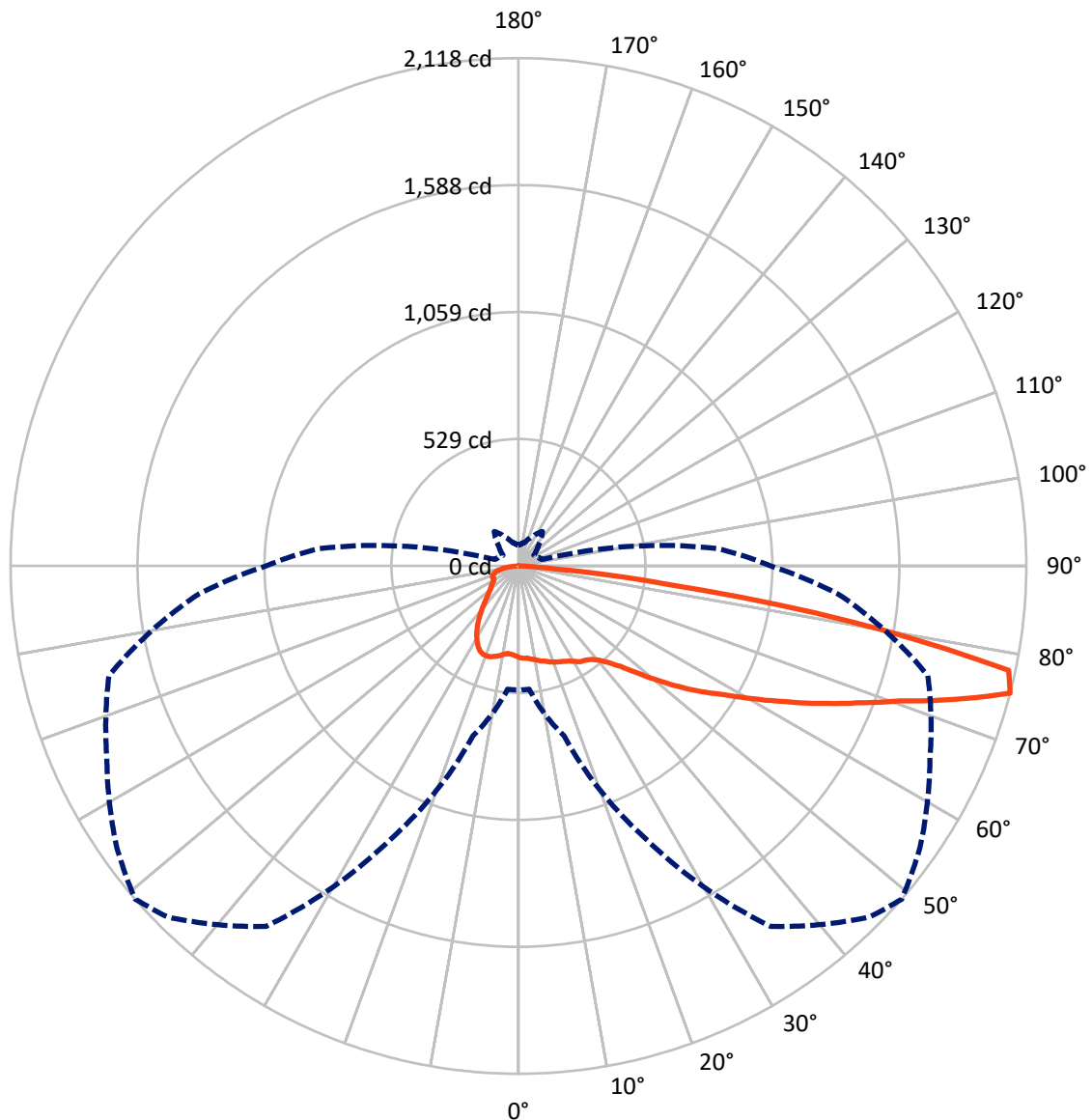


Based on 15 foot mounting height. Maximum calculated value = 1.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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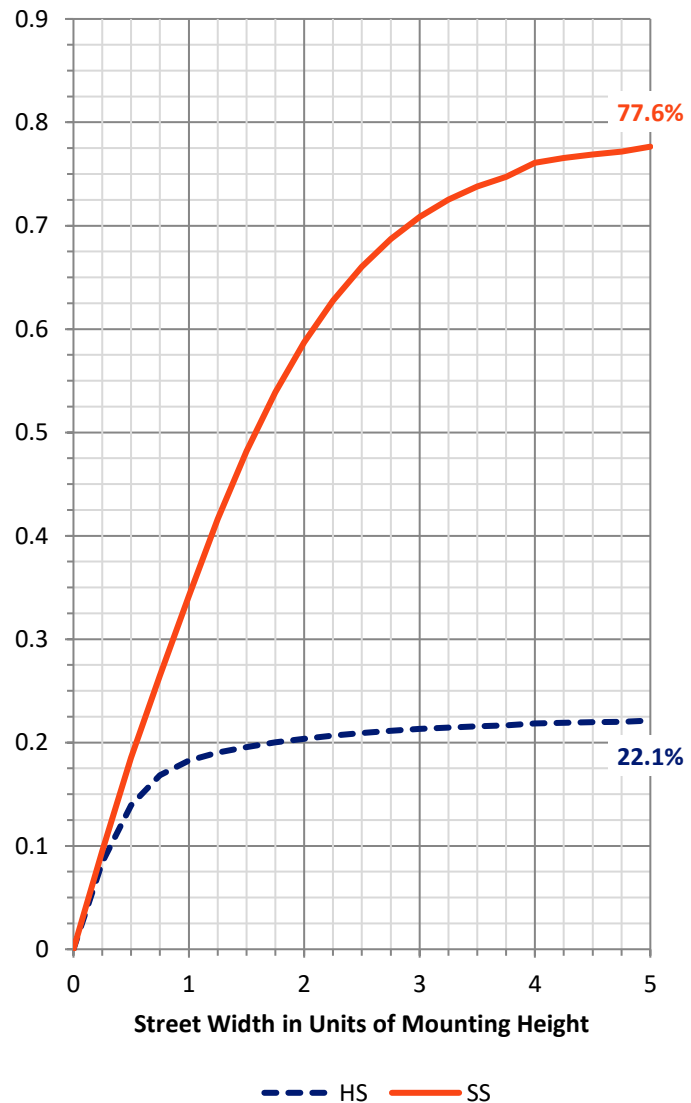
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	762.5	0.0	762.5
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	2642.0	0.0	2642.0
	% Fixture	77.6	0.0	77.6
Total	Lumens	3404.5	0.0	3404.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.7	1.1
10°-20°	114.9	3.4
20°-30°	193.4	5.7
30°-40°	262.1	7.7
40°-50°	384.6	11.3
50°-60°	612.8	18.0
60°-70°	892.5	26.2
70°-80°	807.6	23.7
80°-90°	100.0	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°	3404.5	100.0
0°-180°	3404.5	100.0

Coefficient of Utilization



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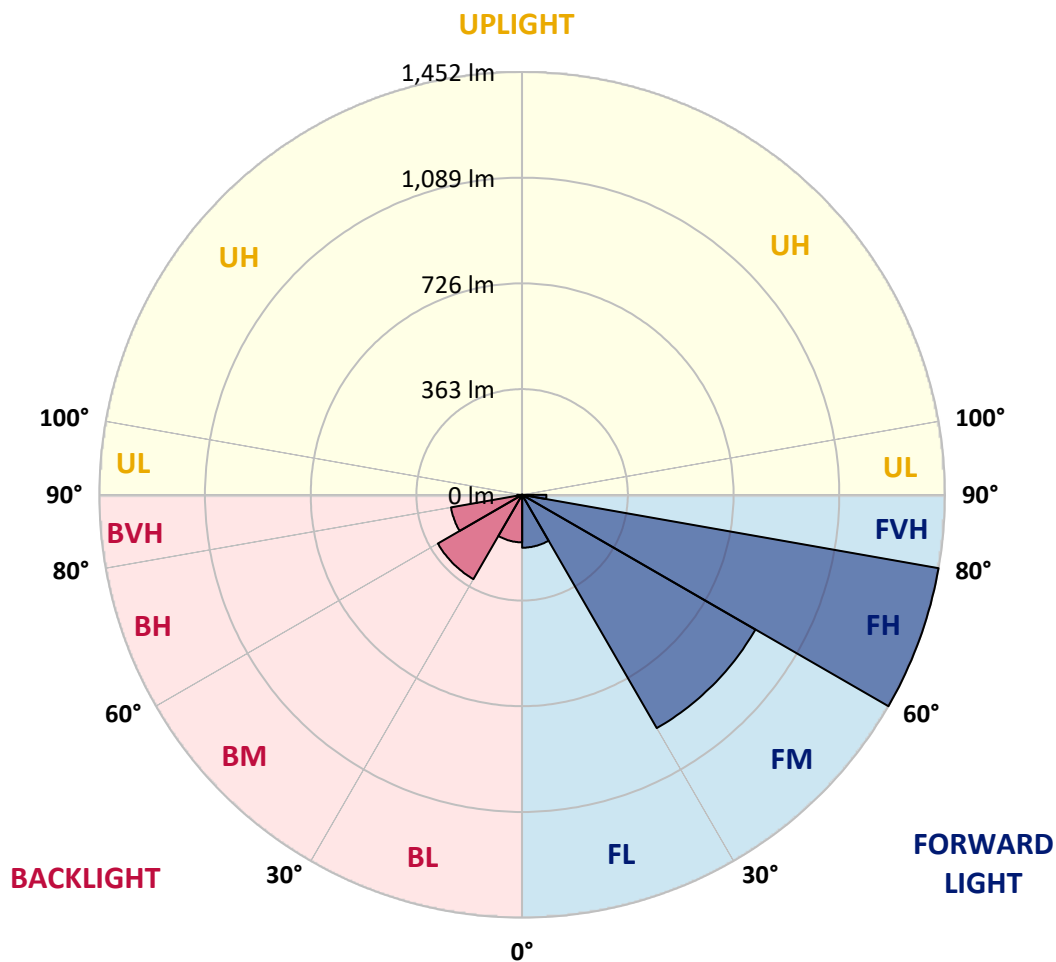
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	181.7	5.3			
FM	(30°-60°)	925.1	27.2			
FH	(60°-80°)	1452.0	42.6			G1/1800
FVH	(80°-90°)	83.2	2.4			G1/100
BL	(0°-30°)	163.2	4.8	B1/500		
BM	(30°-60°)	334.4	9.8	B1/1000		
BH	(60°-80°)	248.1	7.3	B1/500		G1/500
BVH	(80°-90°)	16.8	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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	381.3	381.3	381.3	381.3	381.3	381.3	381.3	381.3	381.3	381.3	381.3
2.5°	393.1	391.5	389.9	389.9	387.6	386.8	386.0	385.2	380.5	381.3	378.2
5°	405.6	403.2	401.7	400.1	395.4	388.4	386.0	385.2	377.4	372.7	370.4
7.5°	423.6	424.4	415.8	411.1	406.4	394.6	392.3	386.0	377.4	371.1	367.2
10°	442.4	440.0	433.0	424.4	415.0	401.7	397.8	392.3	385.2	376.6	371.9
12.5°	455.7	453.4	444.7	433.8	420.5	408.7	406.4	402.5	391.5	382.1	377.4
15°	463.5	465.9	455.7	440.0	425.2	416.6	411.9	409.5	400.1	389.9	381.3
17.5°	472.1	471.4	465.1	446.3	433.0	422.8	420.5	416.6	404.8	395.4	386.8
20°	476.1	479.2	473.7	452.6	436.9	427.5	428.3	425.2	414.2	402.5	393.1
22.5°	478.4	480.0	477.6	456.5	441.6	434.6	433.8	431.4	420.5	410.3	399.3
25°	477.6	478.4	482.3	457.3	446.3	440.8	440.8	437.7	429.1	419.7	408.7
27.5°	478.4	476.8	482.3	459.6	452.6	450.2	449.4	448.7	444.0	430.6	418.9
30°	475.3	480.0	481.5	462.8	462.0	461.2	462.0	462.8	457.3	443.2	430.6
32.5°	476.1	474.5	482.3	466.7	467.5	473.7	476.1	474.5	465.9	454.1	442.4
35°	489.3	493.2	494.8	473.7	472.9	476.8	482.3	480.8	478.4	469.8	462.8
37.5°	559.0	562.1	553.5	502.6	488.6	487.8	494.8	496.3	497.9	494.0	492.4
40°	667.8	663.9	662.3	565.2	515.9	510.4	516.7	524.5	526.9	529.2	533.1
42.5°	786.1	790.8	791.5	653.7	580.1	547.2	550.4	560.5	573.9	577.0	594.2
45°	892.5	901.2	918.4	771.2	667.8	608.3	597.4	606.0	628.7	648.2	676.4
47.5°	967.7	973.2	1000.6	894.1	778.2	673.3	665.5	665.5	697.6	724.2	772.0
50°	1042.9	1039.7	1050.7	1020.2	930.9	770.4	747.7	741.4	783.7	821.3	875.3
52.5°	1100.0	1105.5	1122.7	1135.3	1061.7	876.1	835.4	818.9	873.0	918.4	993.5
55°	1140.8	1143.1	1182.3	1231.6	1186.9	970.1	925.4	913.7	977.9	1029.6	1129.0
57.5°	1195.6	1212.8	1257.4	1347.5	1339.6	1058.5	1012.3	1021.7	1085.9	1142.3	1281.7
60°	1296.6	1291.1	1342.8	1464.1	1421.1	1154.1	1124.3	1129.8	1194.8	1273.1	1469.5
62.5°	1340.4	1342.8	1414.8	1612.0	1533.7	1256.6	1245.7	1258.2	1320.1	1397.6	1706.8
65°	1278.6	1295.8	1456.3	1632.4	1645.7	1389.7	1381.9	1401.5	1445.3	1547.1	1903.3
67.5°	1112.6	1132.9	1393.7	1683.3	1738.9	1527.5	1524.3	1536.9	1565.1	1666.9	2035.6
70°	1027.2	1047.6	1221.4	1705.2	1814.1	1691.1	1687.2	1681.7	1700.5	1782.7	2052.9
72.5°	879.2	888.6	1046.0	1614.4	1882.2	1887.7	1901.8	1859.5	1828.1	1853.2	1849.3
75°	517.5	515.9	733.6	1255.1	1835.2	2070.1	2117.9	2045.0	1893.9	1767.9	1337.3
77.5°	178.5	171.5	249.8	572.3	1332.6	2002.8	2090.5	1983.2	1721.7	1398.4	744.6
80°	50.1	54.0	80.6	191.1	620.8	1235.5	1407.8	1486.0	1122.7	588.0	222.4
82.5°	22.7	23.5	42.3	78.3	229.4	606.0	627.9	532.4	379.8	148.8	54.8
85°	6.3	6.3	13.3	28.2	78.3	140.2	153.5	134.7	78.3	50.1	18.8
87.5°	0.8	0.8	0.8	1.6	2.3	3.9	3.1	8.6	7.0	6.3	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	381.3	381.3	381.3	381.3	381.3	381.3	381.3	381.3	381.3	381.3	381.3
2.5°	379.0	378.2	376.6	375.8	375.1	375.1	375.1	375.8	374.3	377.4	377.4
5°	369.6	368.8	366.4	368.0	368.0	371.1	372.7	374.3	376.6	378.2	379.0
7.5°	365.7	366.4	365.7	364.1	365.7	368.8	375.1	380.5	382.9	385.2	386.0
10°	370.4	370.4	368.0	371.1	371.9	375.1	379.8	386.0	393.1	395.4	395.4
12.5°	373.5	374.3	372.7	379.0	380.5	384.5	387.6	390.7	397.0	400.9	401.7
15°	377.4	376.6	379.0	384.5	387.6	390.7	393.1	391.5	397.8	400.9	400.9
17.5°	382.9	383.7	386.8	393.8	395.4	396.2	395.4	391.5	396.2	399.3	400.9
20°	388.4	389.9	394.6	400.1	400.1	397.0	393.8	389.9	392.3	396.2	399.3
22.5°	395.4	397.8	400.9	404.8	400.9	393.8	389.9	386.0	388.4	394.6	397.0
25°	401.7	404.0	404.0	402.5	392.3	386.0	384.5	384.5	385.2	392.3	393.1
27.5°	412.6	412.6	407.2	396.2	378.2	368.0	371.9	375.1	382.1	387.6	389.2
30°	424.4	421.3	410.3	386.0	357.8	347.7	352.4	361.0	370.4	378.2	382.9
32.5°	439.3	436.9	415.0	374.3	335.9	322.6	327.3	339.8	353.1	362.5	364.1
35°	461.2	455.7	419.7	358.6	307.7	295.2	297.5	311.6	325.7	335.9	341.4
37.5°	489.3	483.9	423.6	338.3	278.7	265.4	264.7	278.0	288.9	298.3	302.2
40°	537.8	524.5	427.5	312.4	250.6	234.9	234.9	239.6	243.5	249.8	252.9
42.5°	599.7	576.2	433.8	282.7	223.2	209.1	203.6	205.9	201.2	195.8	196.5
45°	683.5	642.8	446.3	252.1	198.1	185.6	180.9	174.6	165.2	155.0	155.8
47.5°	781.4	714.8	454.9	224.7	176.2	166.8	162.1	154.3	140.9	130.0	129.2
50°	894.1	793.9	465.9	200.4	156.6	154.3	151.1	139.4	124.5	114.3	112.8
52.5°	1012.3	870.6	476.8	182.4	143.3	147.2	141.7	129.2	112.8	102.6	101.8
55°	1146.2	968.5	498.7	163.6	133.1	139.4	135.5	121.4	104.9	97.9	97.1
57.5°	1303.6	1071.8	532.4	148.8	124.5	129.2	128.4	115.9	104.9	100.2	100.2
60°	1468.8	1205.0	548.8	137.8	115.9	121.4	127.6	118.2	110.4	106.5	105.7
62.5°	1630.8	1331.0	499.5	128.4	109.6	119.0	131.5	128.4	116.7	115.9	115.1
65°	1752.2	1425.0	378.2	119.0	104.9	123.7	148.8	138.6	121.4	119.8	119.0
67.5°	1811.7	1472.7	252.9	112.0	101.0	129.2	164.4	143.3	119.0	115.1	111.2
70°	1738.1	1398.4	168.3	103.4	94.7	126.8	174.6	144.1	114.3	108.8	103.4
72.5°	1484.4	1206.5	128.4	95.5	88.5	122.1	177.0	140.2	109.6	98.7	94.7
75°	1051.5	832.3	103.4	86.1	78.3	115.9	175.4	133.9	101.8	90.0	86.9
77.5°	535.5	373.5	80.6	74.4	66.6	108.8	168.3	109.6	76.7	66.6	65.0
80°	148.8	111.2	62.6	58.7	51.7	90.0	129.2	87.7	61.9	54.8	51.7
82.5°	51.7	47.0	43.1	37.6	36.8	72.8	111.2	71.3	45.4	33.7	32.9
85°	18.8	18.0	20.4	20.4	21.1	37.6	57.9	32.1	19.6	14.1	13.3
87.5°	2.3	2.3	3.1	2.3	3.1	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)