

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: P511099

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

Issue Date: 4/7/2021

Test Information

Test Method: LM-79-08
Report Number: P511099
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-171-6)
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-HSS
Description: PREVAIL AREA AND WALL LUMINAIRE
(1) 85 CRI, 4000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2666.9 lumens
Efficiency: N/A
Efficacy: 86.9 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

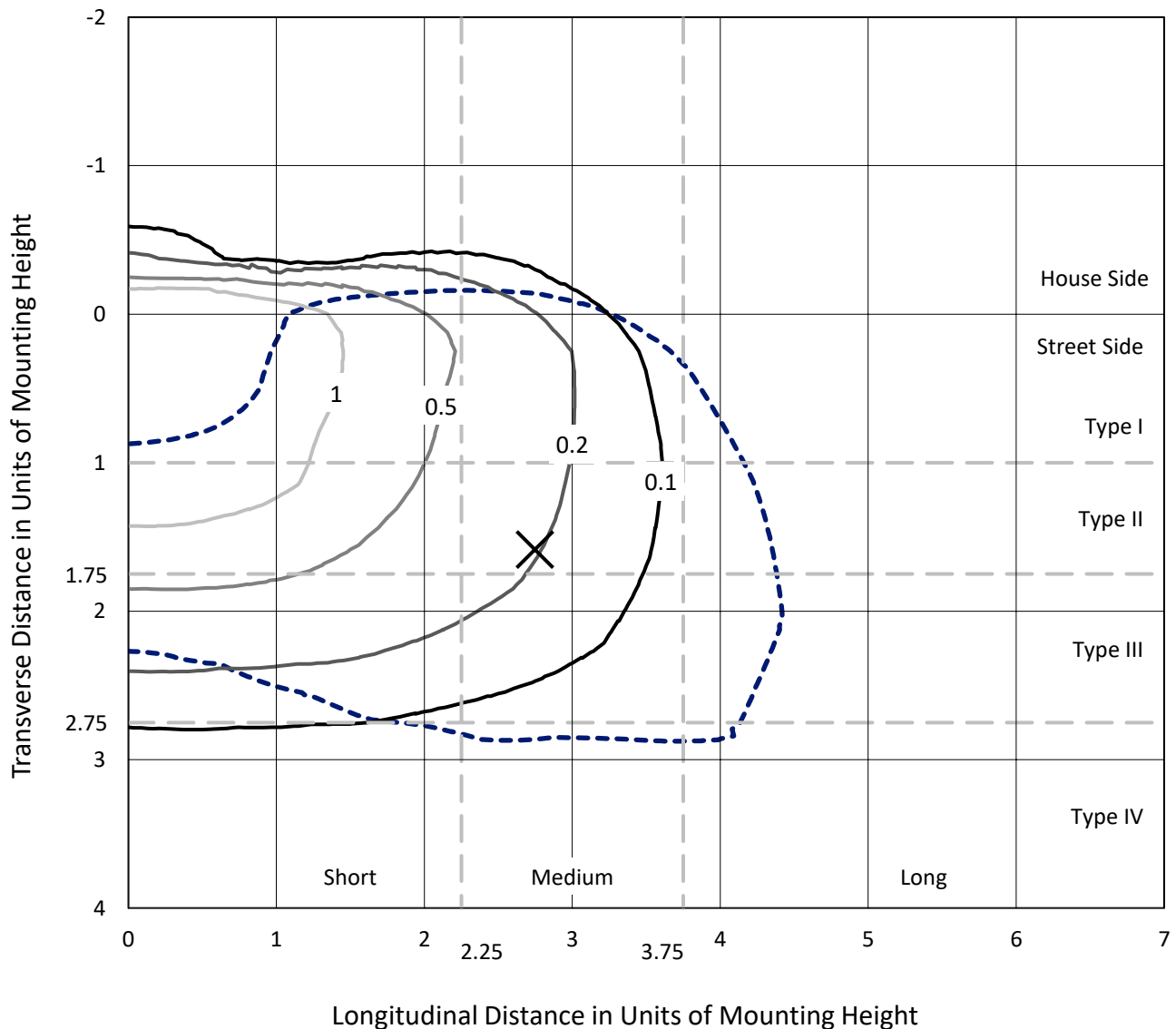


REPORT NUMBER: P511099

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

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

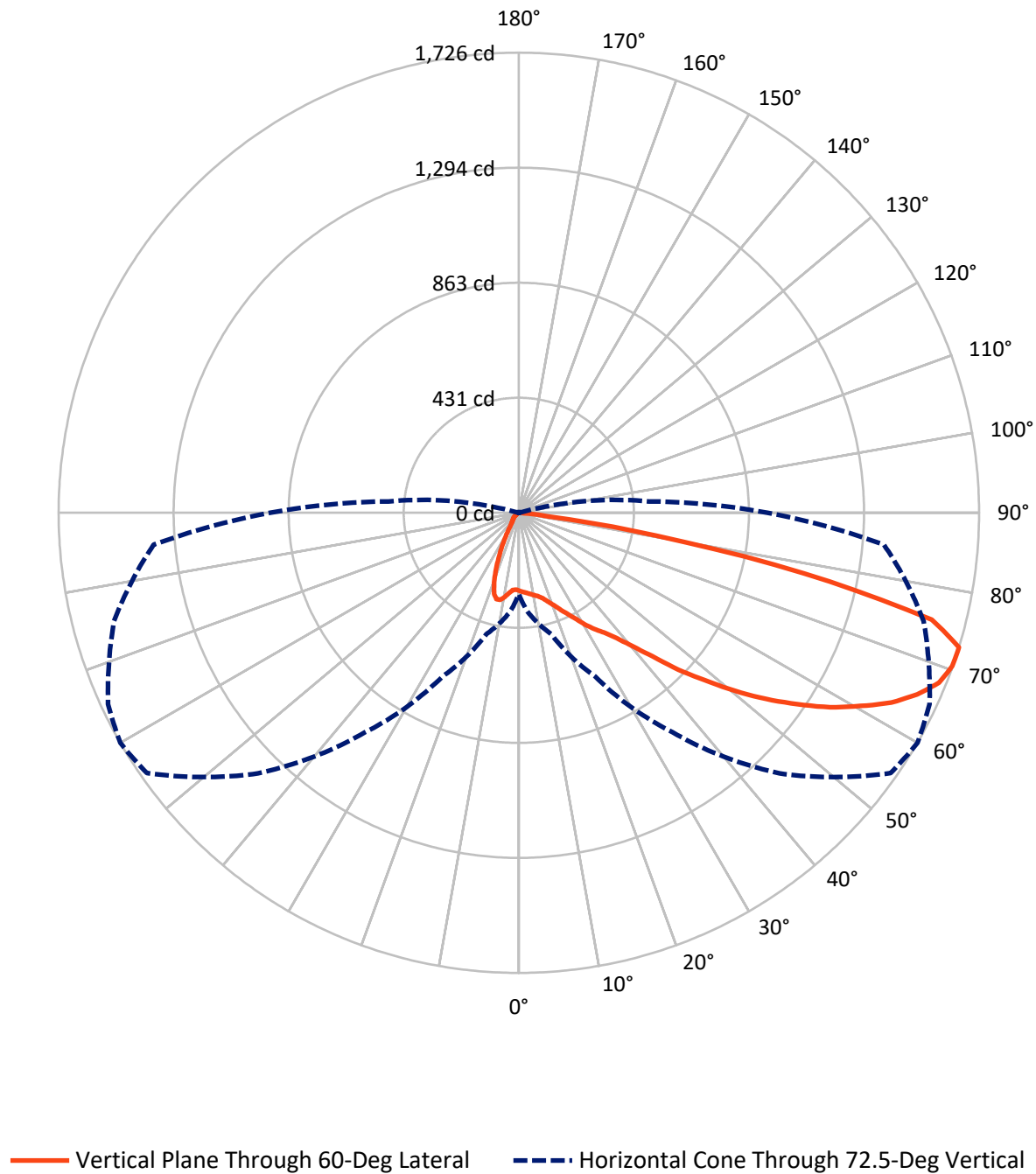


Based on 15 foot mounting height. Maximum calculated value = 1.7 fc
Type IV - Medium - N/A

REPORT NUMBER: P511099

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

Luminous Intensity Polar Plot



REPORT NUMBER: P511099

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

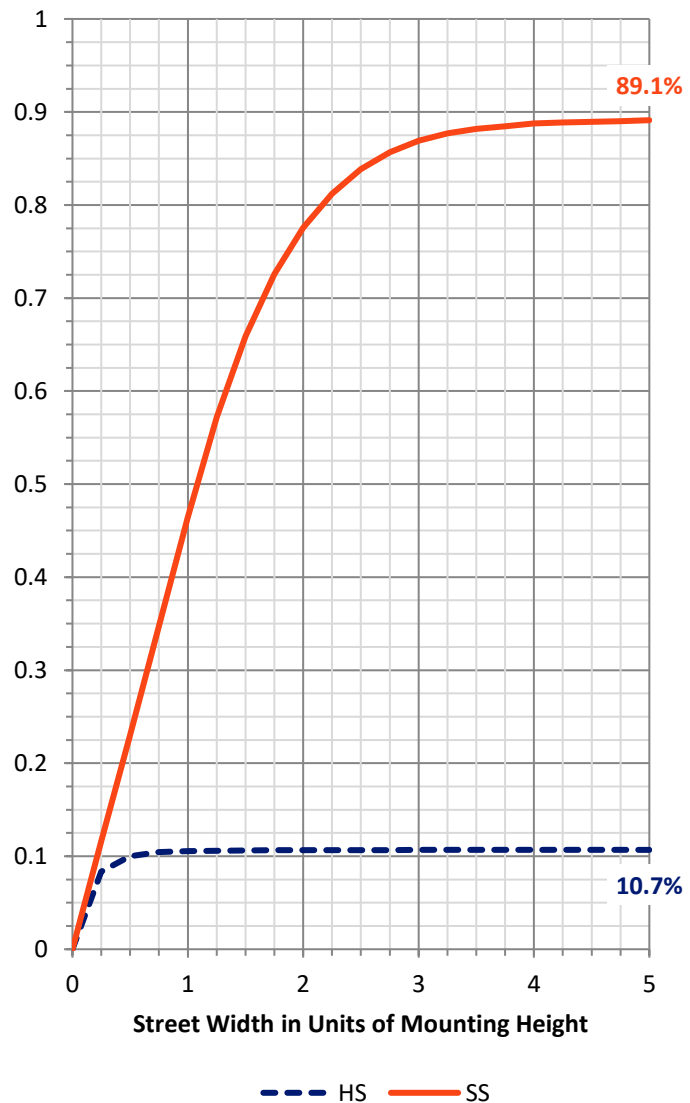
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	287.5	0.0	287.5
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	2379.4	0.0	2379.4
	% Fixture	89.2	0.0	89.2
Total	Lumens	2666.9	0.0	2666.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.3	1.1
10°-20°	77.5	2.9
20°-30°	127.9	4.8
30°-40°	225.8	8.5
40°-50°	396.2	14.9
50°-60°	621.1	23.3
60°-70°	731.9	27.4
70°-80°	437.3	16.4
80°-90°	20.9	0.8
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°	2666.9	100.0
0°-180°	2666.9	100.0

Coefficient of Utilization



REPORT NUMBER: P511099

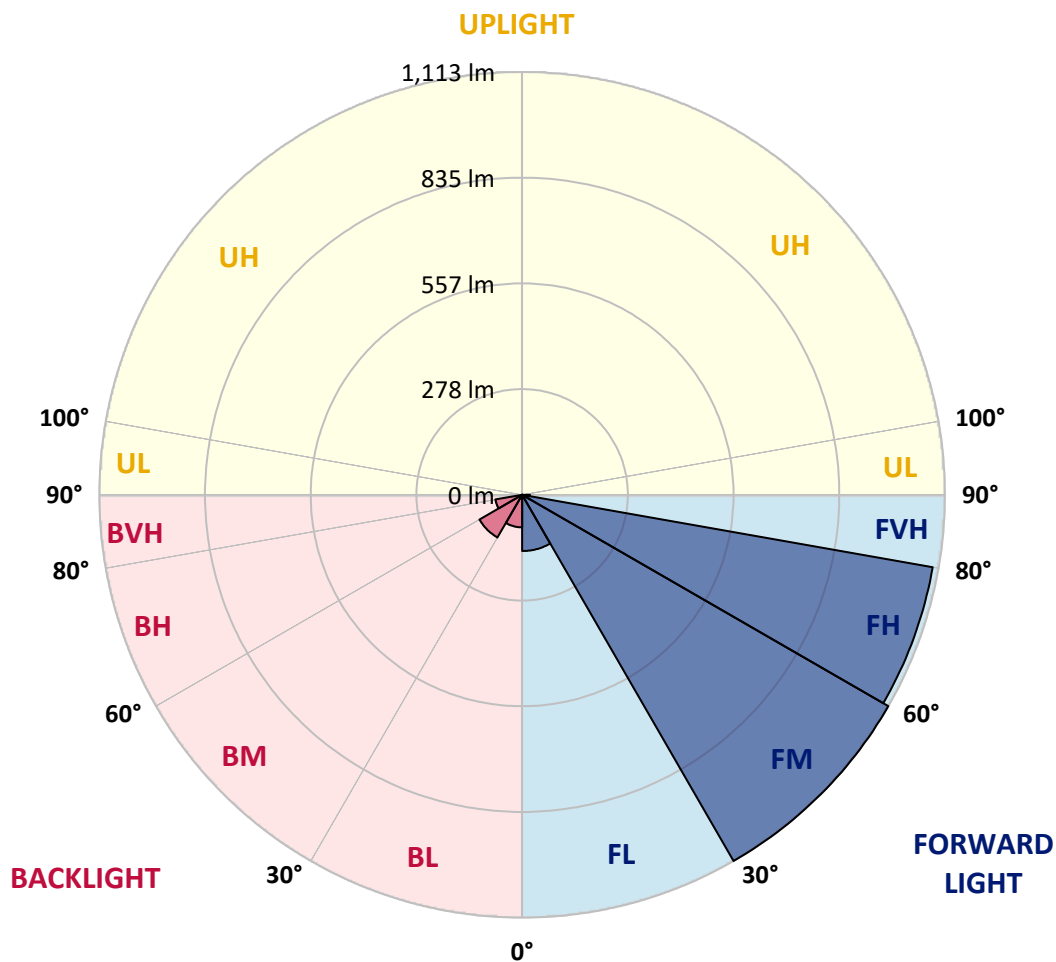
CATALOG NUMBER: PRV-P-PA1A-8540-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	148.0	5.6			
FM	(30°-60°)	1113.3	41.7			
FH	(60°-80°)	1097.7	41.2			G1/1800
FVH	(80°-90°)	20.4	0.8			G1/100
BL	(0°-30°)	85.7	3.2	B0/110		
BM	(30°-60°)	129.8	4.9	B0/220		
BH	(60°-80°)	71.5	2.7	B0/110		G0/110
BVH	(80°-90°)	0.5	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



REPORT NUMBER: P511099

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8
2.5°	300.7	301.5	298.3	301.5	299.9	299.9	299.1	297.5	296.0	295.2	295.2
5°	296.0	296.0	293.6	299.1	300.7	301.5	302.2	301.5	302.2	298.3	298.3
7.5°	273.3	274.0	276.4	283.4	290.5	299.1	307.7	307.7	309.3	310.1	308.5
10°	266.2	266.2	266.2	275.6	281.9	296.8	308.5	314.0	317.9	321.0	324.9
12.5°	263.9	263.1	266.2	277.2	286.6	299.1	315.5	321.0	327.3	336.7	342.2
15°	263.9	263.9	264.7	277.2	290.5	307.7	324.2	332.0	339.0	352.4	360.2
17.5°	270.9	270.1	270.9	281.1	293.6	316.3	341.4	349.2	357.0	369.6	381.3
20°	278.0	277.2	276.4	287.4	299.9	326.5	357.0	368.8	382.1	391.5	401.7
22.5°	290.5	289.7	286.6	293.6	307.7	339.0	376.6	392.3	405.6	415.0	423.6
25°	333.6	331.2	320.2	312.4	322.6	351.6	397.0	418.9	435.3	442.4	447.1
27.5°	409.5	412.6	388.4	357.0	343.7	370.4	421.3	447.9	465.9	471.4	465.9
30°	515.2	510.5	480.8	438.5	393.1	393.8	453.4	484.7	505.8	508.2	494.1
32.5°	608.4	607.6	576.3	530.1	462.0	435.3	480.0	519.1	544.2	544.2	520.7
35°	689.8	685.9	656.9	617.8	552.8	495.6	514.4	552.0	584.1	582.6	554.4
37.5°	754.0	752.5	735.2	699.2	645.2	575.5	559.8	595.9	638.1	635.8	601.3
40°	822.2	823.7	818.2	782.2	725.8	670.2	632.7	657.7	699.2	702.4	666.3
42.5°	908.3	910.6	899.7	865.2	815.1	766.6	732.1	736.0	776.0	780.7	729.8
45°	1013.2	1012.4	999.9	967.0	918.5	871.5	845.6	839.4	858.2	869.1	817.5
47.5°	1093.9	1095.4	1096.2	1084.5	1035.1	1002.2	960.7	938.0	959.2	965.4	904.4
50°	1158.1	1180.8	1172.2	1183.9	1161.2	1141.6	1075.8	1050.0	1065.7	1073.5	1004.6
52.5°	1204.3	1222.3	1231.7	1266.9	1274.7	1292.0	1191.7	1160.4	1164.3	1169.0	1095.4
55°	1188.6	1199.6	1252.0	1314.7	1380.4	1436.0	1295.1	1266.9	1266.1	1267.7	1207.4
57.5°	1142.4	1158.8	1248.9	1328.0	1454.0	1535.5	1407.8	1376.5	1376.5	1353.0	1322.5
60°	1086.8	1097.0	1208.2	1321.7	1494.0	1598.1	1497.1	1471.3	1470.5	1438.4	1447.0
62.5°	1018.7	1024.2	1120.5	1282.6	1477.5	1593.4	1584.8	1568.3	1560.5	1509.6	1544.9
65°	931.0	931.8	1014.0	1208.2	1432.9	1584.8	1641.2	1642.0	1636.5	1573.8	1630.2
67.5°	789.3	804.9	875.4	1082.9	1351.5	1566.0	1676.4	1699.9	1691.3	1613.8	1645.9
70°	605.3	624.8	718.0	898.9	1226.2	1518.2	1707.7	1724.2	1710.9	1619.2	1588.7
72.5°	304.6	371.9	471.4	677.3	1004.6	1382.0	1702.2	1725.7	1699.1	1571.5	1374.2
75°	50.1	55.6	126.8	312.4	630.3	1107.9	1577.0	1599.7	1558.2	1310.7	889.5
77.5°	31.3	33.7	51.7	131.5	214.5	536.4	1129.9	1093.1	1091.5	784.6	379.0
80°	18.8	19.6	27.4	59.5	115.1	113.5	548.1	522.3	469.8	202.0	77.5
82.5°	11.0	11.7	20.4	30.5	63.4	38.4	83.8	108.8	116.7	40.7	15.7
85°	0.8	0.8	6.3	14.1	14.9	8.6	10.2	17.2	15.7	19.6	7.0
87.5°	0.0	0.0	0.0	0.8	1.6	1.6	2.3	2.3	2.3	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: P511099

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8
2.5°	292.8	294.4	290.5	289.7	286.6	287.4	288.1	287.4	287.4	288.1	288.9
5°	296.8	296.0	292.8	292.1	289.7	291.3	292.1	292.8	294.4	293.6	293.6
7.5°	306.2	306.9	303.8	303.8	302.2	302.2	300.7	299.1	298.3	296.8	299.9
10°	324.2	324.9	322.6	321.8	318.7	311.6	297.5	280.3	262.3	255.3	257.6
12.5°	340.6	345.3	342.2	339.8	327.3	297.5	247.4	203.6	177.7	162.1	163.6
15°	360.2	364.1	362.5	353.9	314.8	238.8	166.8	119.0	100.2	90.0	93.2
17.5°	380.5	384.5	381.3	360.2	274.0	163.6	97.1	72.8	68.1	65.8	66.6
20°	402.5	406.4	399.3	345.3	209.1	102.6	65.8	62.6	61.9	61.9	61.9
22.5°	424.4	428.3	417.3	311.6	144.1	67.3	60.3	58.7	57.9	56.4	57.2
25°	443.2	451.8	429.9	262.3	87.7	58.7	56.4	54.8	52.5	50.9	51.7
27.5°	465.1	472.9	426.0	202.0	61.9	54.8	51.7	48.5	46.2	44.6	44.6
30°	490.2	498.0	407.2	132.3	54.0	50.1	46.2	42.3	38.4	36.8	36.8
32.5°	516.0	522.3	376.6	80.6	48.5	44.6	39.9	34.5	30.5	28.2	28.2
35°	549.7	550.4	339.8	54.0	43.1	38.4	32.9	27.4	22.7	21.1	21.1
37.5°	594.3	588.8	294.4	44.6	37.6	32.1	25.8	20.4	17.2	15.7	16.4
40°	654.6	629.5	241.2	39.2	32.9	26.6	19.6	14.9	12.5	12.5	12.5
42.5°	718.0	671.0	182.4	36.0	29.0	21.1	14.1	11.0	10.2	10.2	10.2
45°	793.2	711.0	119.0	32.1	24.3	16.4	10.2	7.8	7.8	8.6	8.6
47.5°	868.3	746.2	71.3	28.2	20.4	12.5	7.8	6.3	6.3	7.0	7.8
50°	952.9	776.7	47.8	25.1	17.2	9.4	6.3	5.5	5.5	7.0	7.0
52.5°	1038.3	795.5	37.6	21.1	13.3	7.8	5.5	4.7	4.7	6.3	6.3
55°	1110.3	811.2	32.1	18.0	10.2	6.3	5.5	4.7	4.7	5.5	6.3
57.5°	1179.2	816.7	27.4	14.9	7.8	6.3	4.7	3.9	3.9	5.5	5.5
60°	1234.0	812.8	23.5	11.7	7.0	5.5	3.9	3.1	3.1	4.7	5.5
62.5°	1271.6	799.4	18.0	8.6	6.3	5.5	3.9	2.3	3.1	3.9	4.7
65°	1291.2	771.3	13.3	7.0	5.5	4.7	3.1	2.3	2.3	3.1	3.1
67.5°	1255.1	726.6	10.2	5.5	4.7	4.7	3.1	1.6	1.6	2.3	2.3
70°	1154.1	660.1	8.6	4.7	3.9	3.9	2.3	1.6	0.8	1.6	1.6
72.5°	931.0	490.2	7.0	3.9	3.1	3.1	2.3	0.8	0.8	0.8	1.6
75°	569.2	160.5	4.7	3.1	2.3	2.3	1.6	0.8	0.8	0.8	0.8
77.5°	222.4	39.9	3.1	1.6	1.6	1.6	0.8	0.8	0.0	0.8	0.8
80°	41.5	7.8	1.6	1.6	0.8	0.8	0.8	0.0	0.0	0.8	0.8
82.5°	10.2	2.3	1.6	1.6	0.8	0.8	0.8	0.0	0.0	0.0	0.8
85°	3.1	1.6	1.6	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	1.6	1.6	0.8	0.8	0.8	0.0	0.0	0.0	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)