

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: P511173

Luminaire Tested: **PRV-P-PA1B-8540-U-T4W-HSS**

Issue Date: 4/7/2021

Test Information

Test Method: LM-79-08
Report Number: P511173
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-PA1B-8540-U-T4W-HSS
Description: PREVAIL AREA AND WALL LUMINAIRE
(1) 85 CRI, 4000K, 670mA 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: 4245.4 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Luminous Opening: Rectangular (W 1.04' x L: 0.58' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 52.8
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

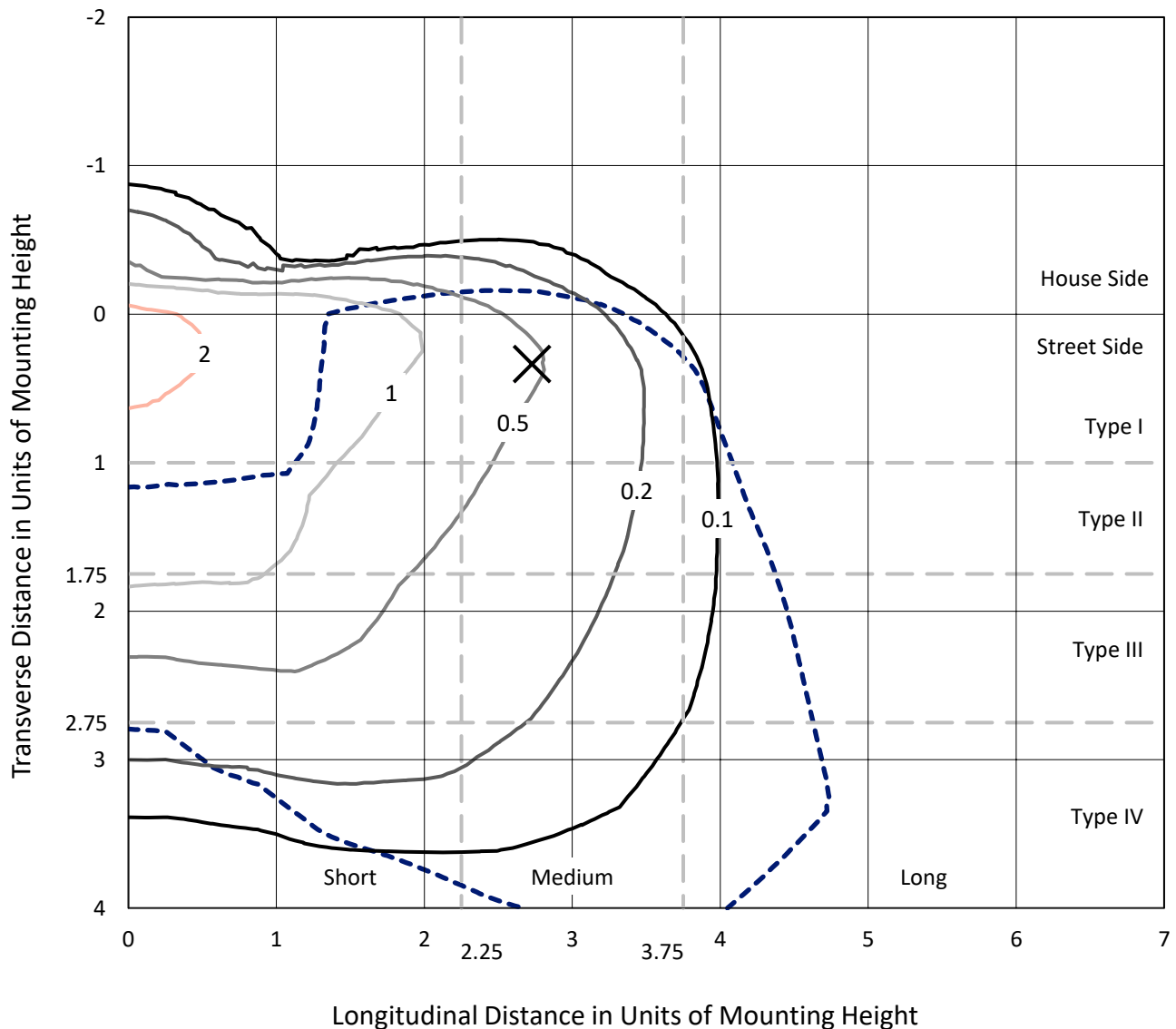


REPORT NUMBER: P511173

CATALOG NUMBER: PRV-P-PA1B-8540-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

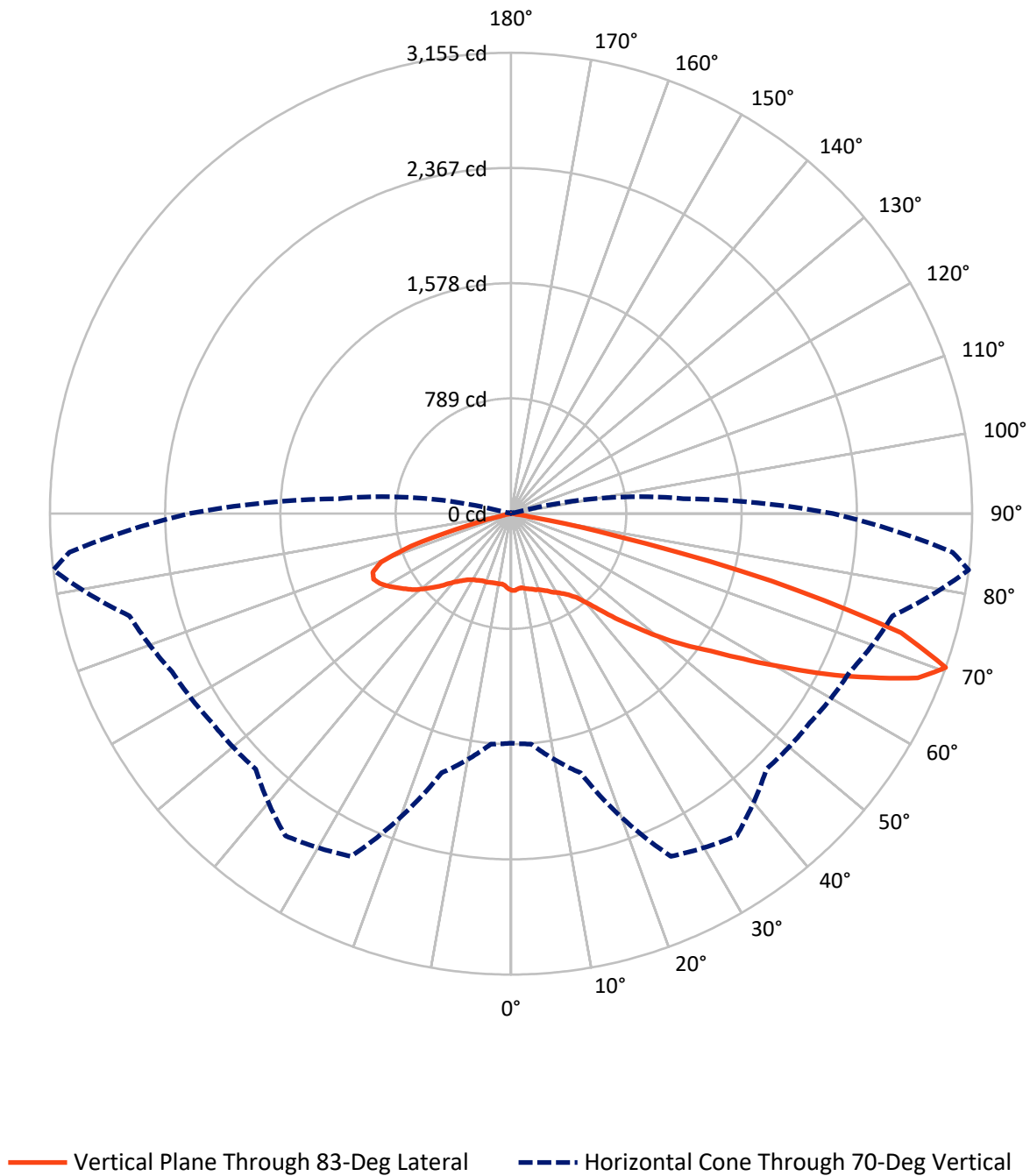


Based on 15 foot mounting height. Maximum calculated value = 2.8 fc
Type IV - Medium - N/A

REPORT NUMBER: P511173

CATALOG NUMBER: PRV-P-PA1B-8540-U-T4W-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P511173

CATALOG NUMBER: PRV-P-PA1B-8540-U-T4W-HSS

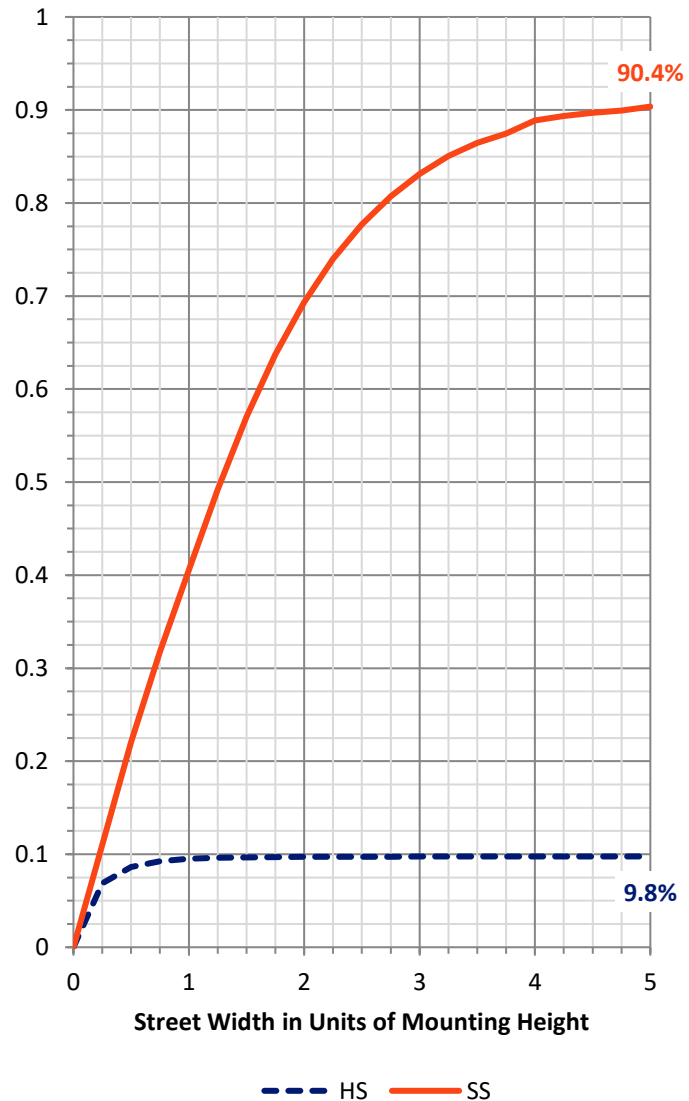
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	418.0	0.0	418.0
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	3827.4	0.0	3827.4
	% Fixture	90.2	0.0	90.2
Total	Lumens	4245.4	0.0	4245.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.5	1.1
10°-20°	126.9	3.0
20°-30°	200.9	4.7
30°-40°	284.1	6.7
40°-50°	465.9	11.0
50°-60°	822.7	19.4
60°-70°	1214.4	28.6
70°-80°	1002.2	23.6
80°-90°	80.7	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°	4245.4	100.0
0°-180°	4245.4	100.0

Coefficient of Utilization



REPORT NUMBER: P511173

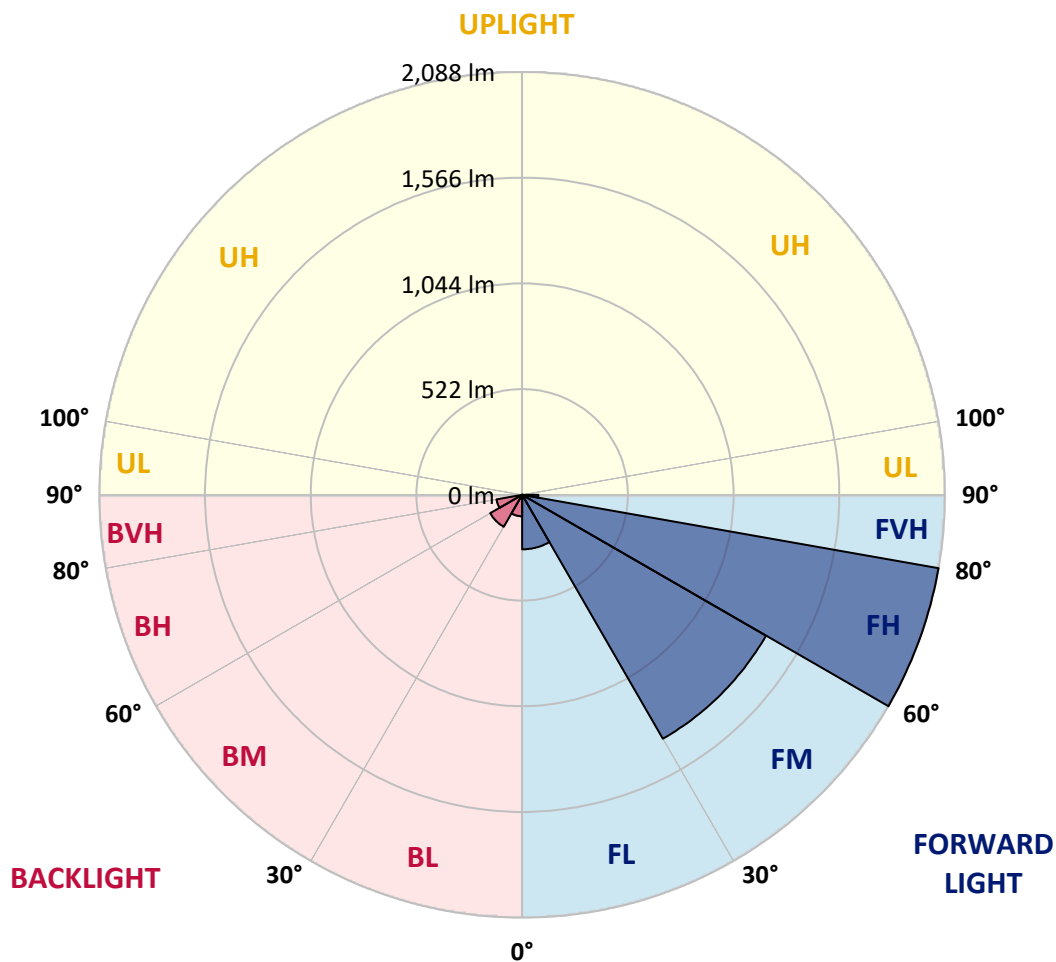
CATALOG NUMBER: PRV-P-PA1B-8540-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	269.3	6.3			
FM	(30°-60°)	1390.6	32.8			
FH	(60°-80°)	2087.9	49.2			G2/5000
FVH	(80°-90°)	79.6	1.9			G1/100
BL	(0°-30°)	106.0	2.5	B0/110		
BM	(30°-60°)	182.2	4.3	B0/220		
BH	(60°-80°)	128.7	3.0	B1/500		G1/500
BVH	(80°-90°)	1.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Medium



REPORT NUMBER: P511173

CATALOG NUMBER: PRV-P-PA1B-8540-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	83°	85°
0°	524.6	524.6	524.6	524.6	524.6	524.6	524.6	524.6	524.6	524.6	524.6
2.5°	557.9	557.9	555.3	555.3	549.0	546.4	540.0	534.9	528.4	525.9	522.0
5°	588.6	587.3	583.5	579.7	565.6	557.9	547.6	534.9	523.4	515.7	510.5
7.5°	619.3	618.0	614.2	603.9	588.6	574.6	556.6	541.3	523.4	511.8	509.3
10°	652.6	655.1	642.4	628.3	605.3	586.1	569.4	555.3	534.9	520.8	514.4
12.5°	682.0	676.9	665.4	647.5	620.6	598.8	586.1	568.1	546.4	528.4	522.0
15°	701.2	697.3	687.2	664.1	632.1	614.2	598.8	579.7	557.9	536.1	529.8
17.5°	715.3	715.3	703.8	673.1	641.0	629.5	612.9	595.0	568.1	547.6	541.3
20°	722.9	726.8	716.5	685.8	652.6	642.4	629.5	610.3	582.2	555.3	550.2
22.5°	726.8	729.4	729.4	691.0	661.6	653.9	643.6	625.7	593.7	570.7	563.0
25°	726.8	731.9	731.9	692.3	671.7	664.1	659.0	642.4	615.4	586.1	579.7
27.5°	731.9	729.4	734.5	697.3	683.3	682.0	679.5	667.9	637.2	609.1	598.8
30°	729.4	728.1	733.2	702.5	697.3	703.8	705.0	693.5	653.9	627.0	621.9
32.5°	747.3	742.1	737.0	707.6	712.7	726.8	726.8	715.3	678.2	652.6	647.5
35°	783.1	756.2	751.1	724.3	725.5	739.6	748.5	742.1	706.3	683.3	679.5
37.5°	785.7	775.4	788.2	748.5	748.5	763.9	781.8	780.6	756.2	728.1	728.1
40°	842.0	834.3	862.4	790.8	783.1	803.6	825.4	839.4	822.8	803.6	801.0
42.5°	1003.2	994.3	1005.8	852.2	833.0	866.2	894.4	921.3	912.4	907.2	904.7
45°	1205.4	1204.1	1211.8	971.2	902.1	941.8	969.9	1010.9	1018.5	1036.5	1036.5
47.5°	1434.4	1413.9	1402.4	1164.4	1005.8	1013.4	1068.4	1123.4	1163.1	1172.1	1186.2
50°	1591.8	1590.5	1567.5	1412.6	1207.9	1118.4	1183.6	1255.2	1332.0	1334.6	1346.1
52.5°	1722.3	1719.7	1721.0	1667.2	1439.5	1250.1	1314.1	1412.6	1486.8	1494.5	1504.8
55°	1782.4	1790.1	1831.0	1854.1	1696.7	1417.8	1466.4	1563.7	1650.6	1659.6	1682.7
57.5°	1875.8	1872.0	1937.3	2048.6	1964.2	1619.9	1631.5	1731.3	1810.6	1877.2	1892.5
60°	2010.2	1993.6	2058.8	2232.9	2122.8	1795.3	1787.6	1892.5	1991.0	2126.6	2142.0
62.5°	2076.8	2049.9	2159.9	2479.8	2291.7	1961.6	1970.5	2060.1	2180.4	2419.6	2488.8
65°	1964.2	1952.6	2202.1	2477.3	2491.3	2116.4	2156.1	2226.5	2388.9	2703.7	2786.9
67.5°	1675.0	1687.8	2104.9	2555.3	2605.2	2289.2	2328.8	2427.4	2568.1	3001.9	3001.9
70°	1571.3	1582.8	1836.2	2588.6	2692.2	2472.2	2496.4	2559.2	2702.4	3155.4	3032.6
72.5°	1338.5	1358.9	1636.5	2500.3	2804.8	2655.1	2611.6	2656.4	2679.4	2792.0	2560.4
75°	511.8	540.0	1046.7	1936.0	2766.4	2857.2	2705.0	2533.6	2258.4	1846.4	1658.3
77.5°	99.8	102.3	243.1	921.3	1991.0	2694.8	2493.9	1952.6	1273.2	721.7	701.2
80°	39.7	42.2	72.9	272.6	913.6	1557.2	1630.2	982.7	405.6	148.5	124.1
82.5°	16.6	16.6	34.5	96.0	319.9	396.7	564.3	313.5	107.5	37.1	32.0
85°	2.6	2.6	11.5	34.5	51.2	29.4	138.2	62.7	52.5	14.1	11.5
87.5°	0.0	0.0	1.3	1.3	2.6	2.6	3.8	5.1	7.7	2.6	2.6
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: P511173

CATALOG NUMBER: PRV-P-PA1B-8540-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	524.6	524.6	524.6	524.6	524.6	524.6	524.6	524.6	524.6	524.6	524.6
2.5°	520.8	515.7	506.7	500.3	496.5	492.7	491.3	483.7	486.2	485.0	485.0
5°	505.4	497.8	486.2	472.1	464.5	456.8	447.9	440.2	435.0	431.2	438.9
7.5°	499.0	490.1	468.3	450.4	432.5	412.0	394.1	377.5	368.5	362.1	362.1
10°	502.8	492.7	465.7	436.4	399.3	355.7	321.2	290.5	279.0	272.6	262.3
12.5°	508.0	493.9	460.6	414.6	357.0	290.5	239.3	202.2	188.1	180.4	179.2
15°	515.7	496.5	455.5	385.2	300.7	218.8	160.0	138.2	139.5	144.6	145.9
17.5°	523.4	502.8	447.9	351.9	241.9	157.4	127.9	124.1	127.9	135.6	136.9
20°	531.0	511.8	437.6	310.9	183.0	124.1	117.7	117.7	121.5	129.3	130.5
22.5°	542.5	516.9	420.9	261.1	136.9	113.8	112.6	113.8	116.4	122.9	125.4
25°	559.1	528.4	400.5	211.1	113.8	108.8	108.8	107.5	108.8	115.2	117.7
27.5°	574.6	545.1	380.1	160.0	101.1	101.1	102.3	101.1	101.1	106.2	108.8
30°	596.3	561.7	350.6	119.0	93.4	92.2	93.4	93.4	93.4	97.2	99.8
32.5°	624.4	586.1	319.9	96.0	85.7	83.2	83.2	85.7	85.7	88.3	89.6
35°	662.8	618.0	284.1	84.5	79.3	75.5	72.9	75.5	78.1	79.3	80.6
37.5°	714.0	660.2	245.7	78.1	74.2	69.1	65.2	65.2	66.6	69.1	71.6
40°	797.2	708.8	198.3	74.2	70.4	62.7	57.6	56.3	56.3	57.6	58.9
42.5°	904.7	770.3	148.5	71.6	67.8	56.3	51.2	47.4	44.8	44.8	46.0
45°	1032.6	843.2	110.0	67.8	66.6	51.2	44.8	39.7	33.3	32.0	33.3
47.5°	1182.3	905.9	81.9	62.7	61.4	44.8	38.4	30.7	23.0	23.0	23.0
50°	1335.9	975.1	66.6	56.3	55.0	41.0	30.7	21.8	16.6	16.6	17.9
52.5°	1490.7	1041.5	60.1	51.2	49.9	37.1	23.0	15.3	12.8	14.1	14.1
55°	1636.5	1094.0	57.6	47.4	44.8	32.0	17.9	11.5	10.3	11.5	11.5
57.5°	1801.6	1150.3	53.7	43.5	37.1	24.3	14.1	10.3	8.9	10.3	10.3
60°	1966.7	1207.9	48.6	39.7	29.4	17.9	11.5	8.9	7.7	8.9	8.9
62.5°	2121.5	1261.6	41.0	33.3	23.0	14.1	10.3	7.7	6.4	7.7	8.9
65°	2243.1	1294.9	29.4	25.6	17.9	12.8	8.9	6.4	5.1	6.4	7.7
67.5°	2296.9	1278.3	21.8	19.2	14.1	10.3	7.7	5.1	3.8	5.1	6.4
70°	2204.7	1182.3	15.3	14.1	10.3	8.9	6.4	3.8	2.6	3.8	5.1
72.5°	1787.6	895.7	12.8	11.5	7.7	7.7	6.4	3.8	2.6	2.6	2.6
75°	1092.8	390.2	10.3	8.9	5.1	6.4	5.1	2.6	1.3	2.6	2.6
77.5°	400.5	87.0	7.7	5.1	3.8	5.1	3.8	2.6	1.3	1.3	1.3
80°	92.2	20.4	3.8	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3
82.5°	23.0	3.8	2.6	2.6	1.3	1.3	1.3	1.3	1.3	1.3	1.3
85°	8.9	2.6	1.3	1.3	1.3	1.3	1.3	1.3	0.0	0.0	0.0
87.5°	2.6	2.6	2.6	1.3	1.3	1.3	1.3	1.3	1.3	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)