

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: P380868

Luminaire Tested: **PRV-PA1A-740-U-T2R**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P380868
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-9)
Test Lab: INNOVATIONS CENTER
Issue Date: 1/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-PA1A-740-U-T2R
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7604.9 lumens
Efficiency: N/A
Efficacy: 140.8 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

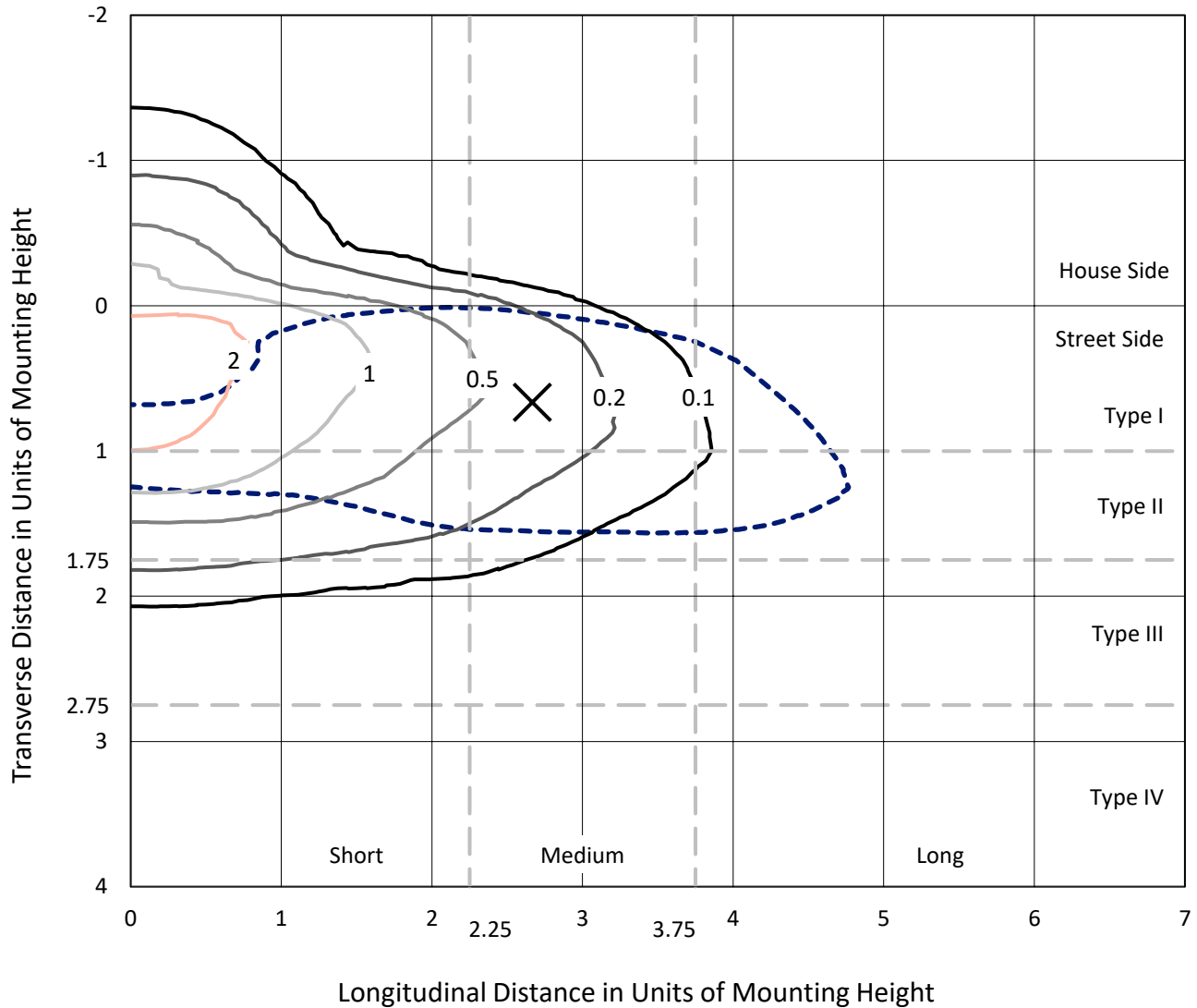
Input Watts (W): 54
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P380868
 CATALOG NUMBER: PRV-PA1A-740-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

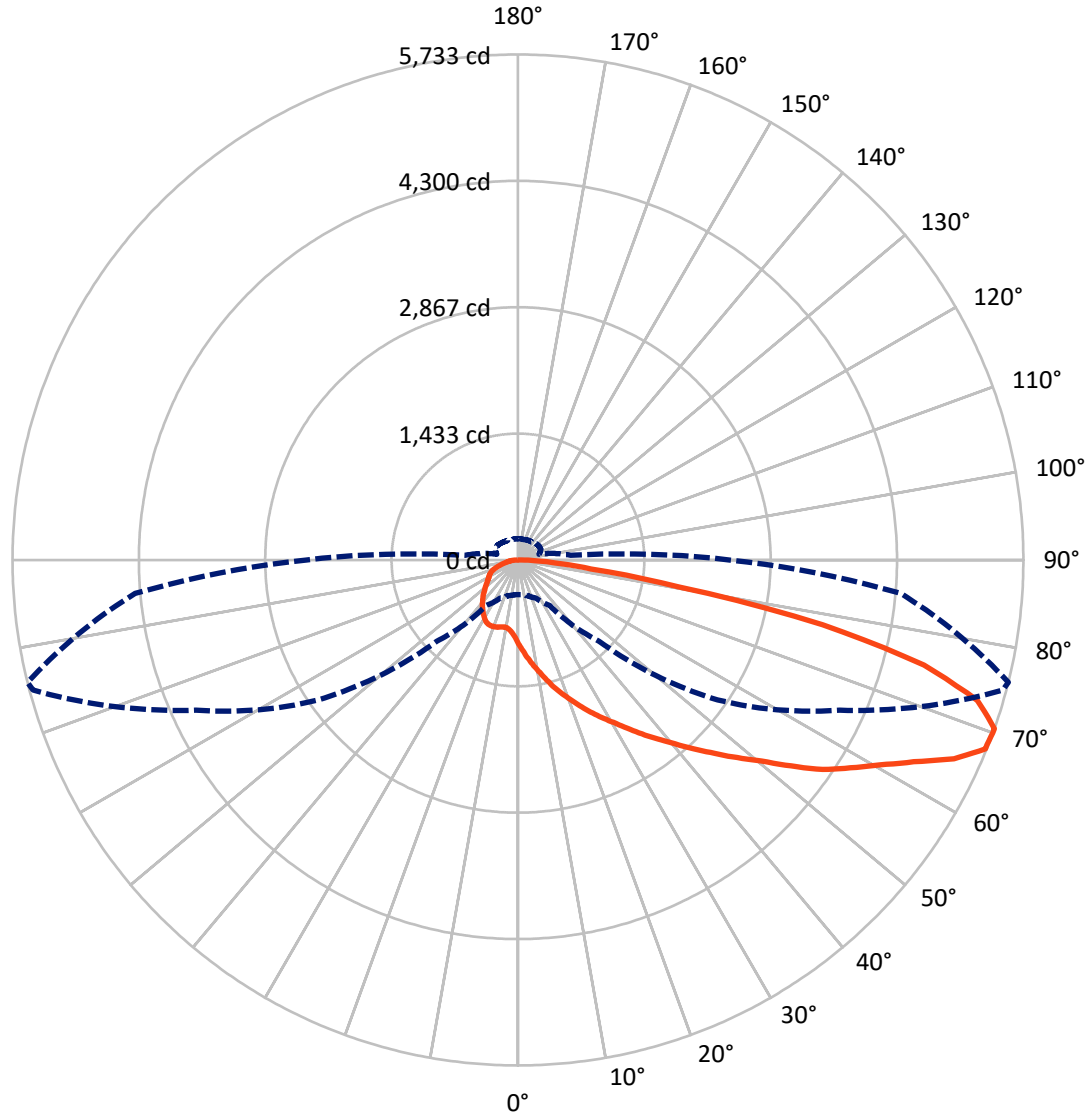
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type II - Medium - N/A

REPORT NUMBER: P380868
CATALOG NUMBER: PRV-PA1A-740-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P380868

CATALOG NUMBER: PRV-PA1A-740-U-T2R

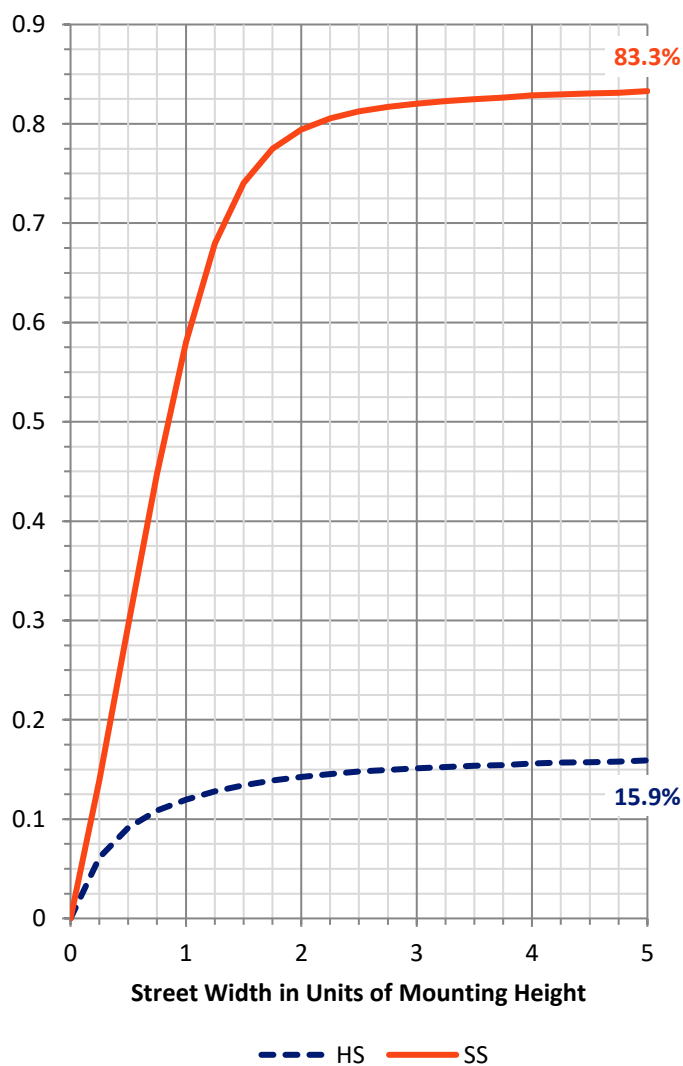
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1241.5	0.0	1241.5
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	6363.4	0.0	6363.4
	% Fixture	83.7	0.0	83.7
Total	Lumens	7604.9	0.0	7604.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.8	1.3
10°-20°	335.8	4.4
20°-30°	600.9	7.9
30°-40°	972.0	12.8
40°-50°	1406.1	18.5
50°-60°	1609.4	21.2
60°-70°	1480.5	19.5
70°-80°	915.5	12.0
80°-90°	185.9	2.4
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°	7604.9	100.0
0°-180°	7604.9	100.0

Coefficient of Utilization



REPORT NUMBER: P380868

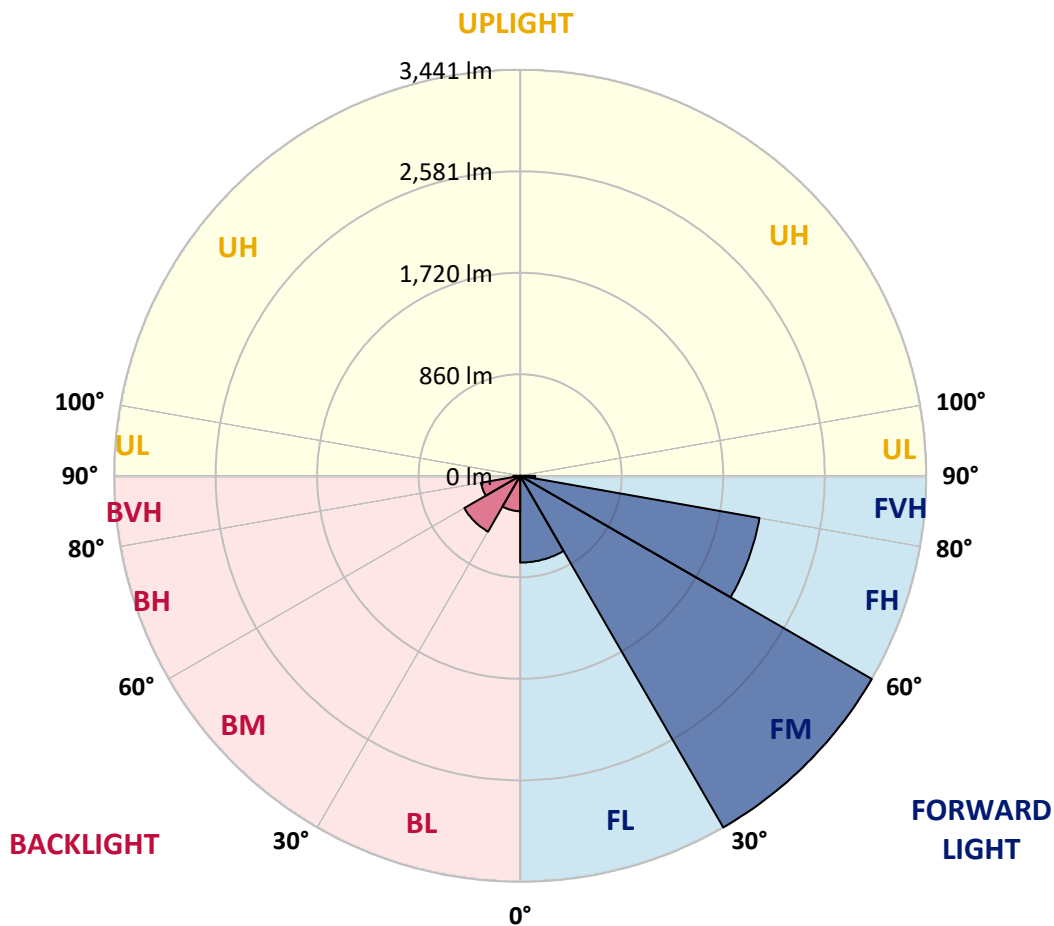
CATALOG NUMBER: PRV-PA1A-740-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	735.7	9.7			
FM (30°-60°)	3440.9	45.2			
FH (60°-80°)	2059.2	27.1			G2/5000
FVH (80°-90°)	127.6	1.7			G2/225
BL (0°-30°)	299.9	3.9	B1/500		
BM (30°-60°)	546.6	7.2	B1/1000		
BH (60°-80°)	336.8	4.4	B1/500		G1/500
BVH (80°-90°)	58.3	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium





REPORT NUMBER: P380868
 CATALOG NUMBER: PRV-PA1A-740-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	951.0	951.0	951.0	951.0	951.0	951.0	951.0	951.0	951.0	951.0	951.0
2.5°	1212.0	1203.0	1202.0	1188.0	1175.0	1140.0	1115.0	1071.0	1027.0	1026.0	982.0
5°	1401.1	1392.1	1387.1	1370.1	1348.1	1302.1	1257.0	1189.0	1114.0	1109.0	1026.0
7.5°	1529.1	1521.1	1511.1	1504.1	1483.1	1442.1	1387.1	1306.1	1203.0	1193.0	1077.0
10°	1615.1	1610.1	1608.1	1603.1	1590.1	1557.1	1504.1	1418.1	1292.1	1281.1	1131.0
12.5°	1652.1	1650.1	1659.1	1673.1	1678.1	1665.1	1614.1	1533.1	1390.1	1378.1	1196.0
15°	1609.1	1611.1	1634.1	1682.1	1733.1	1761.1	1731.1	1652.1	1501.1	1484.1	1272.1
17.5°	1589.1	1592.1	1608.1	1654.1	1726.1	1813.1	1827.1	1765.1	1608.1	1584.1	1352.1
20°	1624.1	1628.1	1640.1	1676.1	1726.1	1819.1	1892.1	1873.1	1713.1	1688.1	1429.1
22.5°	1713.1	1718.1	1717.1	1740.1	1774.1	1838.1	1928.1	1975.1	1823.1	1795.1	1509.1
25°	1903.1	1899.1	1865.1	1854.1	1863.1	1904.1	1976.1	2073.1	1938.1	1910.1	1593.1
27.5°	2161.1	2156.1	2094.1	2038.1	1988.1	2006.1	2044.1	2152.1	2055.1	2023.1	1673.1
30°	2437.1	2431.1	2359.1	2268.1	2157.1	2131.1	2126.1	2221.1	2173.1	2139.1	1758.1
32.5°	2706.1	2701.1	2624.1	2518.1	2365.1	2287.1	2239.1	2298.1	2307.1	2274.1	1851.1
35°	2951.1	2951.1	2885.1	2759.1	2586.1	2468.1	2389.1	2393.1	2461.1	2423.1	1957.1
37.5°	3169.1	3168.1	3096.1	2972.1	2806.1	2671.1	2573.1	2508.1	2608.1	2575.1	2068.1
40°	3342.1	3335.1	3282.1	3174.1	3007.1	2873.1	2774.1	2643.1	2772.1	2742.1	2186.1
42.5°	3468.1	3464.1	3428.1	3334.1	3175.1	3049.1	2981.1	2813.1	2958.1	2928.1	2324.1
45°	3517.1	3525.1	3525.1	3436.1	3310.1	3195.1	3165.1	3000.1	3159.1	3129.1	2472.1
47.5°	3438.1	3459.1	3502.1	3508.1	3397.1	3319.1	3329.1	3188.1	3366.1	3350.1	2634.1
50°	3191.1	3230.1	3324.1	3494.1	3432.1	3414.1	3469.1	3380.1	3588.1	3583.1	2831.1
52.5°	2554.1	2649.1	2942.1	3247.1	3408.1	3458.1	3608.1	3596.1	3874.2	3882.2	3088.1
55°	1959.1	1995.1	2334.1	2853.1	3261.1	3444.1	3701.1	3807.2	4184.2	4194.2	3324.1
57.5°	1584.1	1608.1	1793.1	2334.1	2926.1	3368.1	3774.1	3930.2	4422.2	4448.2	3534.1
60°	1255.0	1290.1	1414.1	1786.1	2457.1	3185.1	3825.2	4067.2	4678.2	4717.2	3785.2
62.5°	933.0	950.0	1067.0	1323.1	1945.1	2856.1	3798.2	4216.2	4992.2	5039.2	4087.2
65°	664.0	679.0	762.0	941.0	1438.1	2411.1	3641.1	4327.2	5386.2	5434.2	4391.2
67.5°	497.0	503.0	550.0	658.0	969.0	1873.1	3323.1	4308.2	5674.2	5717.2	4513.2
70°	393.0	395.0	418.0	476.0	630.0	1304.1	2766.1	4029.2	5695.2	5733.2	4359.2
72.5°	326.0	325.0	338.0	366.0	439.0	825.0	2049.1	3511.1	5425.2	5451.2	3929.2
75°	269.0	271.0	280.0	296.0	335.0	544.0	1328.1	2801.1	4786.2	4758.2	3297.1
77.5°	226.0	225.0	229.0	243.0	271.0	391.0	778.0	2024.1	3547.1	3533.1	2164.1
80°	182.0	184.0	190.0	202.0	228.0	298.0	460.0	1263.1	1903.1	1852.1	1034.0
82.5°	122.0	141.0	153.0	167.0	197.0	220.0	292.0	642.0	851.0	838.0	469.0
85°	58.0	77.0	114.0	130.0	160.0	138.0	198.0	306.0	426.0	421.0	169.0
87.5°	12.0	12.0	61.0	73.0	99.0	59.0	110.0	133.0	206.0	193.0	69.0
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: P380868

CATALOG NUMBER: PRV-PA1A-740-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	951.0	951.0	951.0	951.0	951.0	951.0	951.0	951.0	951.0	951.0	951.0
2.5°	956.0	929.0	875.0	832.0	788.0	763.0	732.0	717.0	714.0	706.0	712.0
5°	973.0	920.0	818.0	751.0	706.0	684.0	673.0	669.0	668.0	666.0	666.0
7.5°	996.0	915.0	782.0	714.0	685.0	678.0	681.0	687.0	688.0	690.0	689.0
10°	1024.0	916.0	762.0	705.0	691.0	692.0	702.0	710.0	714.0	717.0	716.0
12.5°	1063.0	928.0	759.0	711.0	705.0	709.0	719.0	727.0	731.0	732.0	732.0
15°	1114.0	953.0	766.0	724.0	719.0	722.0	728.0	731.0	732.0	731.0	731.0
17.5°	1170.0	983.0	776.0	732.0	724.0	721.0	719.0	716.0	710.0	706.0	706.0
20°	1224.0	1010.0	781.0	731.0	717.0	705.0	693.0	678.0	668.0	660.0	660.0
22.5°	1278.1	1035.0	781.0	720.0	698.0	675.0	650.0	626.0	611.0	601.0	601.0
25°	1335.1	1059.0	775.0	701.0	668.0	635.0	601.0	571.0	556.0	546.0	544.0
27.5°	1383.1	1073.0	759.0	674.0	631.0	589.0	550.0	519.0	508.0	499.0	499.0
30°	1434.1	1082.0	729.0	639.0	589.0	541.0	501.0	476.0	464.0	451.0	450.0
32.5°	1491.1	1088.0	695.0	602.0	546.0	495.0	461.0	441.0	415.0	401.0	399.0
35°	1557.1	1096.0	659.0	560.0	503.0	457.0	437.0	404.0	379.0	367.0	366.0
37.5°	1627.1	1102.0	620.0	523.0	464.0	432.0	412.0	373.0	351.0	333.0	331.0
40°	1701.1	1102.0	580.0	487.0	433.0	421.0	383.0	348.0	311.0	302.0	300.0
42.5°	1783.1	1100.0	540.0	452.0	404.0	396.0	366.0	329.0	310.0	302.0	300.0
45°	1870.1	1093.0	502.0	412.0	374.0	358.0	335.0	325.0	317.0	317.0	317.0
47.5°	1969.1	1087.0	459.0	376.0	352.0	334.0	317.0	311.0	310.0	313.0	316.0
50°	2096.1	1085.0	423.0	350.0	335.0	314.0	312.0	307.0	308.0	308.0	308.0
52.5°	2250.1	1067.0	389.0	331.0	318.0	293.0	299.0	304.0	306.0	305.0	304.0
55°	2363.1	1035.0	360.0	318.0	306.0	285.0	293.0	301.0	303.0	300.0	300.0
57.5°	2465.1	990.0	337.0	308.0	298.0	280.0	289.0	297.0	295.0	294.0	293.0
60°	2582.1	947.0	319.0	303.0	290.0	278.0	286.0	291.0	288.0	286.0	285.0
62.5°	2709.1	905.0	306.0	303.0	284.0	277.0	283.0	285.0	279.0	277.0	277.0
65°	2768.1	839.0	292.0	303.0	281.0	275.0	277.0	275.0	269.0	269.0	268.0
67.5°	2671.1	730.0	274.0	299.0	285.0	272.0	268.0	265.0	258.0	258.0	256.0
70°	2403.1	600.0	248.0	286.0	286.0	271.0	256.0	249.0	241.0	244.0	240.0
72.5°	2053.1	476.0	216.0	264.0	280.0	270.0	243.0	232.0	225.0	228.0	222.0
75°	1663.1	369.0	178.0	229.0	265.0	265.0	230.0	215.0	207.0	207.0	200.0
77.5°	1060.0	273.0	145.0	190.0	238.0	258.0	219.0	196.0	184.0	181.0	176.0
80°	525.0	192.0	119.0	151.0	203.0	242.0	211.0	174.0	157.0	151.0	142.0
82.5°	279.0	133.0	95.0	118.0	162.0	218.0	201.0	150.0	129.0	120.0	110.0
85°	125.0	82.0	76.0	90.0	123.0	179.0	181.0	123.0	99.0	118.0	87.0
87.5°	46.0	37.0	37.0	46.0	71.0	75.0	128.0	79.0	63.0	43.0	34.0
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)