

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: P511170

Luminaire Tested: **PRV-P-PA1B-740-U-T2U**

Issue Date: 4/7/2021

Test Information

Test Method: LM-79-08
Report Number: P511170
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-171-3)
Test Lab: INNOVATION CENTER
Issue Date: 4/7/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-P-PA1B-740-U-T2U
Description: PREVAIL AREA AND WALL LUMINAIRE
(1) 70 CRI, 4000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7347 lumens
Efficiency: N/A
Efficacy: 139.1 lumens/watt
Luminous Opening: Rectangular (W 1.04' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

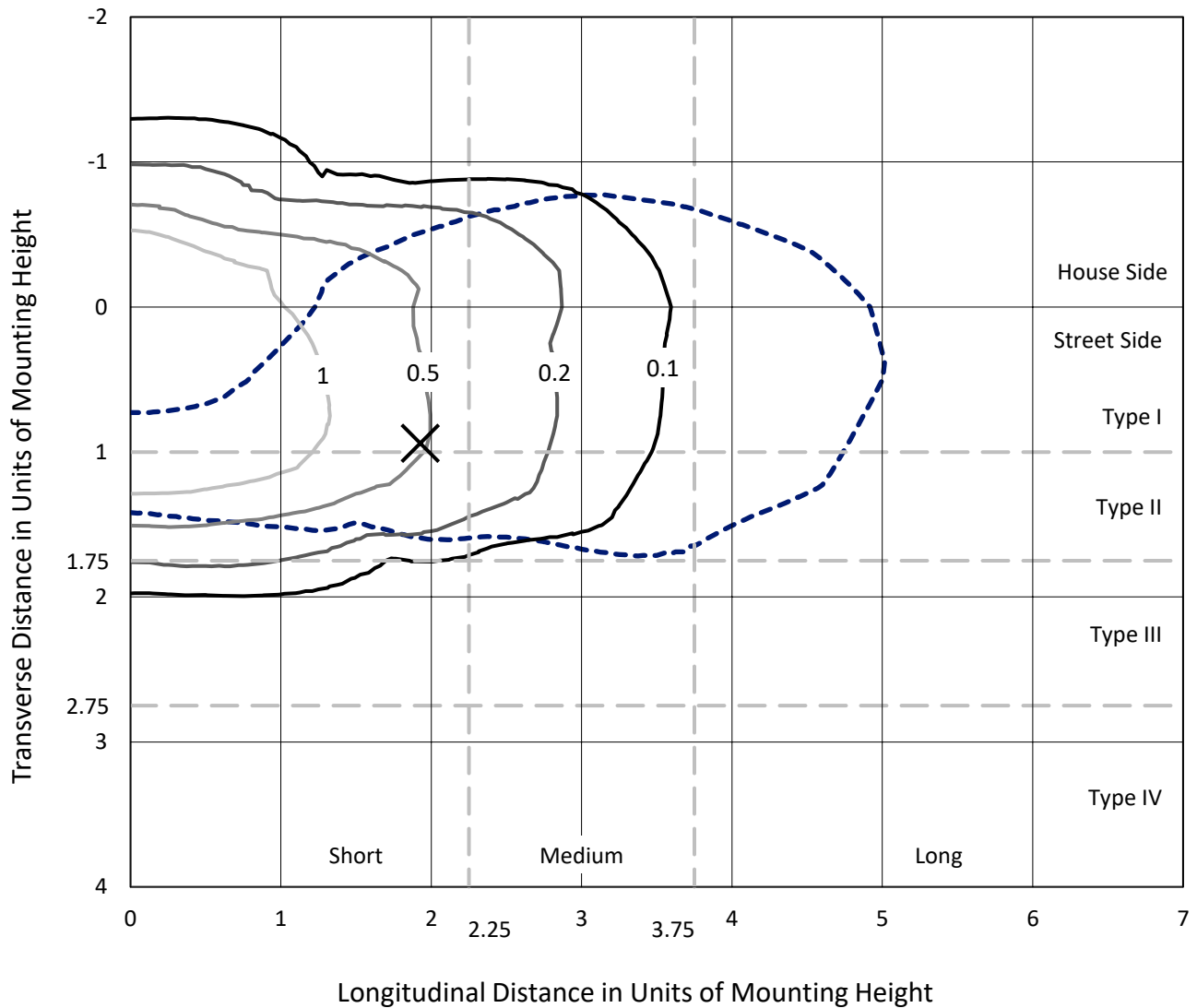
Input Watts (W): 52.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P511170
 CATALOG NUMBER: PRV-P-PA1B-740-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

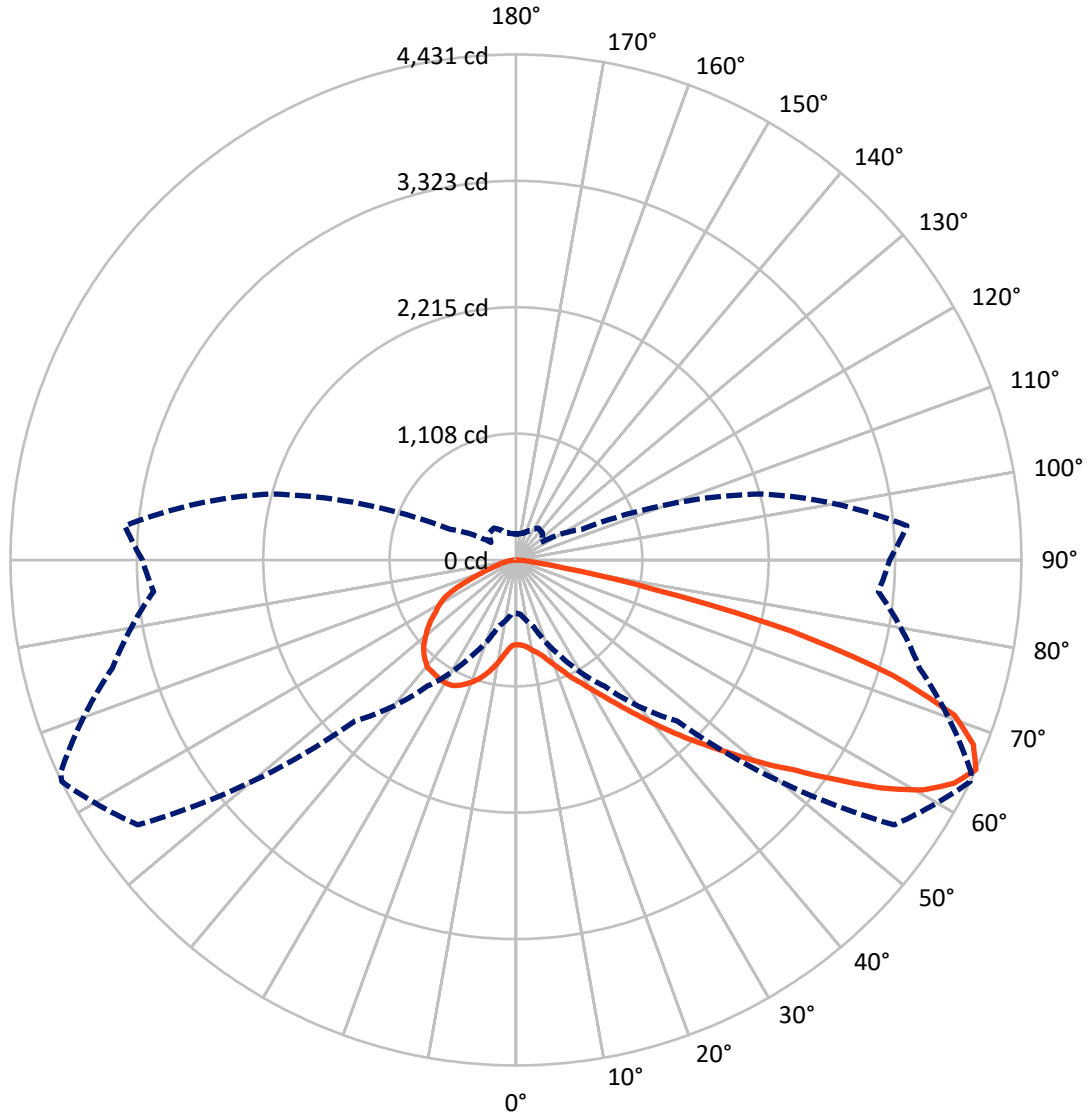
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type II - Short - N/A

REPORT NUMBER: P511170
CATALOG NUMBER: PRV-P-PA1B-740-U-T2U

Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P511170

CATALOG NUMBER: PRV-P-PA1B-740-U-T2U

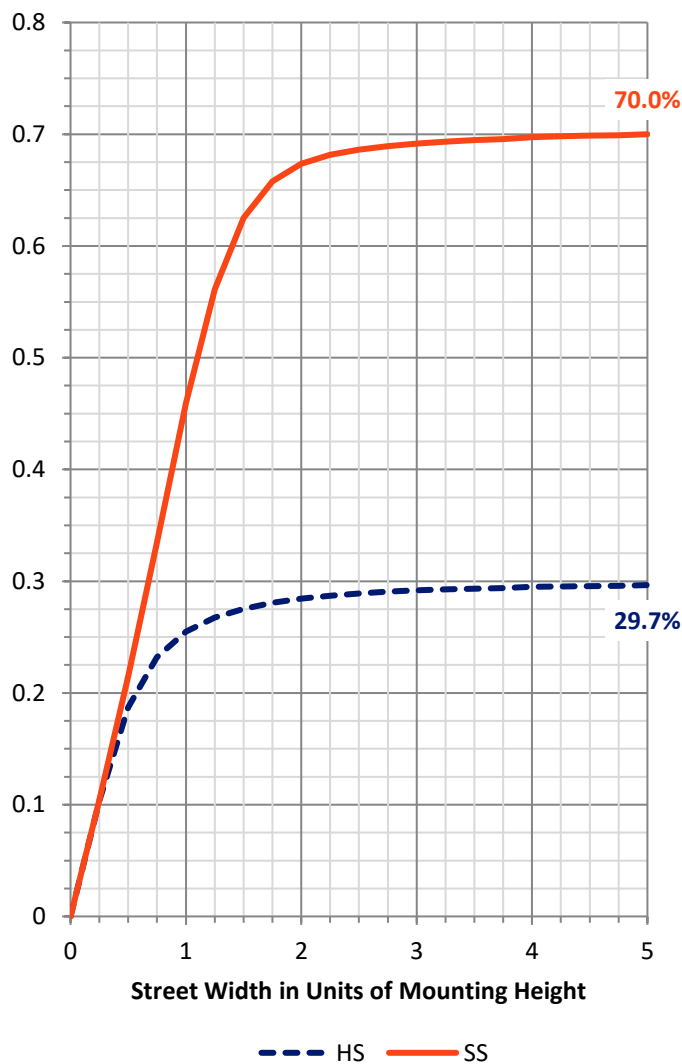
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2195.4	0.0	2195.4
	% Fixture	29.9	0.0	29.9
Street Side	Lumens	5151.6	0.0	5151.6
	% Fixture	70.1	0.0	70.1
Total	Lumens	7347.0	0.0	7347.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.4	1.0
10°-20°	265.9	3.6
20°-30°	514.7	7.0
30°-40°	823.0	11.2
40°-50°	1319.2	18.0
50°-60°	1728.4	23.5
60°-70°	1570.3	21.4
70°-80°	937.9	12.8
80°-90°	111.2	1.5
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°	7347.0	100.0
0°-180°	7347.0	100.0

Coefficient of Utilization



REPORT NUMBER: P511170

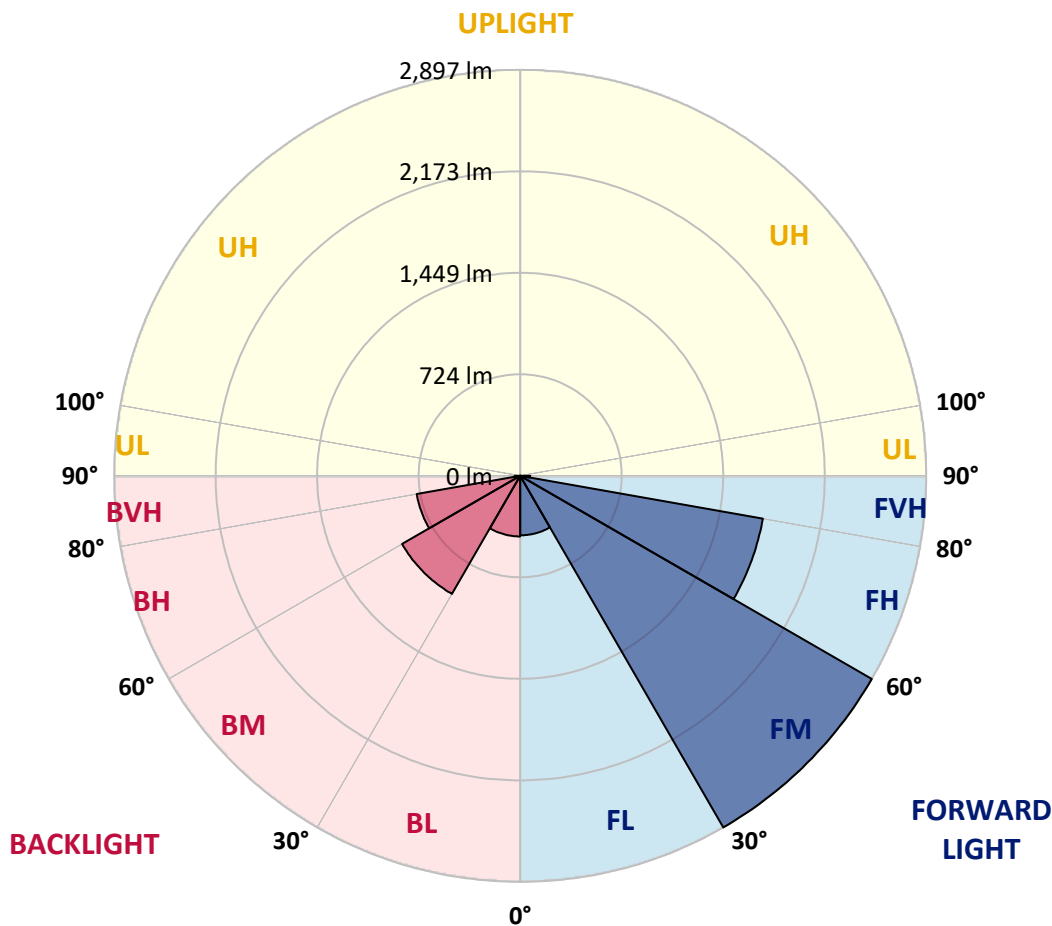
CATALOG NUMBER: PRV-P-PA1B-740-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	424.4	5.8			
FM (30°-60°)	2897.4	39.4			
FH (60°-80°)	1758.5	23.9			G1/1800
FVH (80°-90°)	71.3	1.0			G1/100
BL (0°-30°)	432.7	5.9	B1/500		
BM (30°-60°)	973.2	13.2	B1/1000		
BH (60°-80°)	749.6	10.2	B2/1000		G2/1000
BVH (80°-90°)	39.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





REPORT NUMBER: P511170
 CATALOG NUMBER: PRV-P-PA1B-740-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	742.0	742.0	742.0	742.0	742.0	742.0	742.0	742.0	742.0	742.0	742.0
2.5°	743.6	742.0	746.9	746.9	746.9	745.2	743.6	745.2	745.2	743.6	745.2
5°	740.3	740.3	745.2	751.8	751.8	756.7	753.4	755.0	756.7	758.3	758.3
7.5°	719.1	724.0	728.9	738.7	748.5	761.6	769.7	776.3	777.9	784.5	789.4
10°	730.5	728.9	737.1	743.6	753.4	774.6	787.7	805.7	802.4	820.4	828.6
12.5°	751.8	751.8	758.3	769.7	782.8	802.4	812.2	833.5	835.1	851.5	867.8
15°	777.9	777.9	789.4	802.4	822.0	848.2	861.3	871.1	879.2	892.3	908.7
17.5°	825.3	831.8	833.5	846.6	862.9	895.6	916.8	925.0	925.0	936.4	951.1
20°	915.2	928.3	916.8	915.2	918.5	952.8	974.0	988.7	987.1	990.4	992.0
22.5°	1037.8	1045.9	1034.5	1021.4	1001.8	1023.1	1042.7	1059.0	1049.2	1049.2	1034.5
25°	1197.9	1188.1	1178.3	1140.7	1104.8	1096.6	1124.4	1144.0	1139.1	1114.6	1081.9
27.5°	1364.6	1351.5	1328.7	1287.8	1229.0	1197.9	1204.5	1220.8	1227.3	1186.5	1134.2
30°	1524.8	1528.0	1500.3	1443.1	1367.9	1315.6	1307.4	1318.9	1315.6	1261.7	1186.5
32.5°	1751.9	1730.7	1707.8	1629.4	1518.2	1456.1	1430.0	1431.6	1431.6	1351.5	1247.0
35°	2006.9	2010.2	1943.2	1833.7	1698.0	1611.4	1570.5	1567.3	1559.1	1469.2	1333.6
37.5°	2371.3	2348.5	2266.7	2116.4	1923.5	1801.0	1730.7	1720.9	1712.7	1603.2	1443.1
40°	2688.4	2691.6	2606.7	2453.0	2206.3	2003.6	1918.6	1900.7	1897.4	1750.3	1568.9
42.5°	2900.8	2889.4	2886.1	2796.2	2554.4	2335.4	2149.1	2096.8	2072.3	1926.8	1719.3
45°	3000.5	3005.4	3020.1	3036.5	2923.7	2714.5	2443.2	2302.7	2281.4	2106.6	1882.7
47.5°	3059.4	3070.8	3116.6	3165.6	3216.2	3141.1	2747.2	2529.9	2511.9	2294.5	2051.0
50°	3023.4	3015.2	3124.7	3262.0	3423.8	3570.9	3096.9	2794.6	2771.7	2523.3	2239.0
52.5°	2645.9	2685.1	2927.0	3234.2	3554.5	3840.5	3495.7	3061.0	3041.4	2739.0	2407.3
55°	2137.6	2167.0	2420.4	2907.4	3566.0	4012.1	3804.6	3394.4	3368.2	2954.8	2600.1
57.5°	1621.2	1698.0	1980.7	2366.4	3227.7	4041.6	4043.2	3768.6	3680.4	3168.9	2773.4
60°	1088.4	1119.5	1467.6	1840.2	2592.0	3775.2	4164.1	4093.9	4023.6	3376.4	2933.5
62.5°	737.1	743.6	952.8	1390.8	1917.0	3146.0	4170.7	4311.2	4239.3	3544.7	3064.3
65°	465.8	478.8	606.3	931.5	1348.3	1997.1	4048.1	4430.5	4402.7	3662.4	3188.5
67.5°	354.6	357.9	413.5	563.8	943.0	1201.2	3500.6	4324.3	4332.5	3749.0	3247.3
70°	302.3	307.2	353.0	390.6	648.8	645.5	2243.9	4079.1	4108.6	3780.1	3280.0
72.5°	240.2	248.4	299.1	359.5	475.6	439.6	959.3	3453.2	3541.5	3677.1	3255.5
75°	176.5	181.4	225.5	292.5	372.6	338.3	380.8	2493.9	2726.0	3226.1	3096.9
77.5°	125.8	134.0	168.3	217.4	338.3	245.1	237.0	1229.0	1477.4	2451.4	2662.2
80°	88.3	86.6	112.8	147.1	210.8	183.0	140.5	415.1	532.8	1403.8	1732.3
82.5°	44.1	45.8	65.4	91.5	119.3	145.5	78.4	165.1	191.2	576.9	647.2
85°	19.6	19.6	27.8	32.7	53.9	53.9	37.6	60.5	67.0	158.5	58.8
87.5°	0.0	1.6	1.6	3.3	3.3	4.9	6.5	8.2	9.8	9.8	8.2
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: P511170
 CATALOG NUMBER: PRV-P-PA1B-740-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	742.0	742.0	742.0	742.0	742.0	742.0	742.0	742.0	742.0	742.0	742.0
2.5°	746.9	746.9	746.9	746.9	751.8	755.0	759.9	763.2	761.6	763.2	763.2
5°	761.6	763.2	769.7	777.9	789.4	799.2	815.5	818.8	826.9	823.7	831.8
7.5°	792.6	800.8	812.2	831.8	853.1	871.1	885.8	895.6	902.1	907.0	902.1
10°	838.4	848.2	871.1	898.9	925.0	949.5	959.3	969.1	967.5	962.6	961.0
12.5°	879.2	892.3	928.3	962.6	996.9	1016.5	1008.3	996.9	987.1	980.6	978.9
15°	921.7	939.7	978.9	1028.0	1055.7	1054.1	1031.2	1013.2	1011.6	1008.3	1005.1
17.5°	964.2	987.1	1037.8	1083.5	1101.5	1072.1	1049.2	1041.0	1044.3	1041.0	1039.4
20°	1003.4	1024.7	1083.5	1132.6	1124.4	1085.2	1070.4	1063.9	1055.7	1050.8	1047.6
22.5°	1041.0	1063.9	1130.9	1175.0	1147.3	1096.6	1078.6	1055.7	1047.6	1037.8	1034.5
25°	1077.0	1103.1	1170.1	1214.3	1147.3	1091.7	1054.1	1024.7	1006.7	996.9	996.9
27.5°	1129.3	1147.3	1209.4	1245.3	1134.2	1063.9	996.9	956.0	928.3	926.6	926.6
30°	1168.5	1178.3	1242.0	1256.8	1104.8	1000.2	915.2	854.7	825.3	817.1	815.5
32.5°	1220.8	1217.5	1269.8	1260.0	1067.2	920.1	807.3	738.7	701.1	689.7	683.1
35°	1286.2	1281.3	1327.0	1256.8	1014.9	825.3	688.0	609.6	583.4	563.8	565.5
37.5°	1392.4	1359.7	1415.3	1255.1	944.6	701.1	562.2	514.8	480.5	460.9	462.5
40°	1503.5	1456.1	1515.0	1258.4	862.9	578.5	477.2	442.9	410.2	380.8	384.1
42.5°	1639.2	1582.0	1621.2	1232.2	766.5	482.1	424.9	400.4	372.6	351.4	354.6
45°	1791.2	1709.4	1720.9	1206.1	657.0	429.8	408.6	390.6	366.1	338.3	339.9
47.5°	1957.9	1864.7	1796.1	1165.2	570.4	418.4	423.3	395.5	341.6	307.2	307.2
50°	2124.6	2031.4	1858.2	1101.5	514.8	446.2	421.6	354.6	312.1	290.9	287.6
52.5°	2296.2	2235.7	1894.1	1037.8	498.5	444.5	387.3	335.0	299.1	274.6	271.3
55°	2487.4	2456.3	1948.1	967.5	451.1	428.2	371.0	320.3	281.1	261.5	256.6
57.5°	2667.1	2709.6	1998.7	892.3	385.7	390.6	353.0	308.9	274.6	259.8	256.6
60°	2873.1	2966.2	2065.7	831.8	333.4	362.8	346.5	315.4	281.1	263.1	259.8
62.5°	3052.8	3209.7	2150.7	756.7	297.4	346.5	349.7	307.2	269.7	253.3	248.4
65°	3275.1	3440.1	2234.1	635.7	266.4	330.1	339.9	282.7	241.9	230.4	225.5
67.5°	3433.6	3582.3	2278.2	462.5	237.0	297.4	310.5	251.7	209.2	202.6	199.4
70°	3525.1	3548.0	2255.3	322.0	205.9	251.7	276.2	220.6	184.7	179.8	174.9
72.5°	3458.1	3315.9	2091.9	223.9	178.1	215.7	240.2	197.7	155.3	148.7	145.5
75°	3183.6	2874.7	1680.0	165.1	155.3	183.0	202.6	166.7	124.2	112.8	111.1
77.5°	2587.1	2193.2	1085.2	130.7	129.1	148.7	161.8	130.7	94.8	89.9	85.0
80°	1572.2	1340.1	460.9	98.1	98.1	107.9	119.3	103.0	71.9	62.1	60.5
82.5°	590.0	459.2	152.0	63.7	62.1	76.8	93.2	70.3	40.9	34.3	31.1
85°	44.1	53.9	55.6	31.1	27.8	31.1	37.6	19.6	11.4	8.2	8.2
87.5°	6.5	6.5	6.5	4.9	3.3	1.6	1.6	1.6	1.6	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

(END OF REPORT)