

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: P380924

Luminaire Tested: **PRV-PA1A-730-U-T3**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P380924
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)
Test Lab: INNOVATIONS CENTER
Issue Date: 1/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-PA1A-730-U-T3
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6899 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

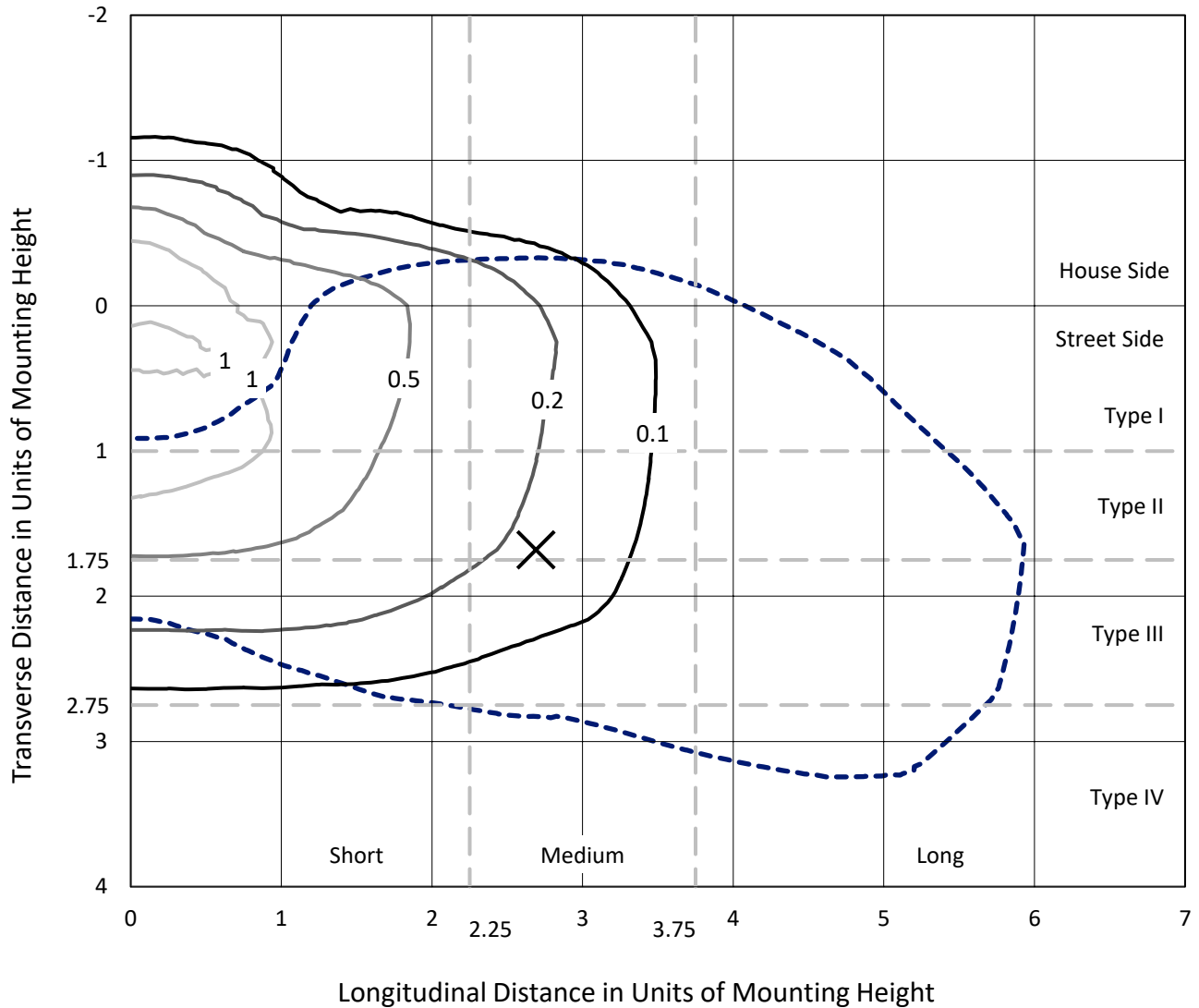
Input Watts (W): 54
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

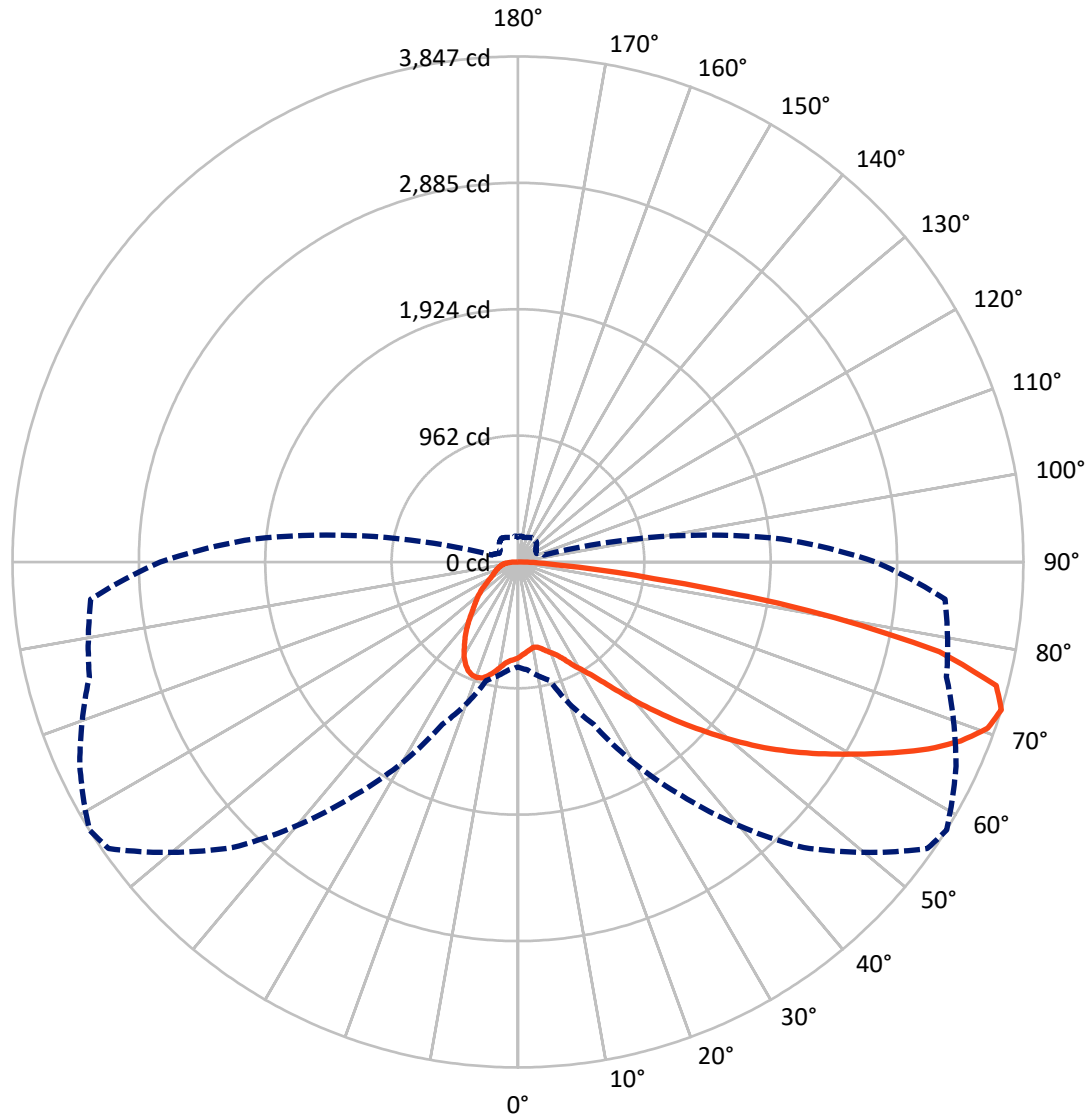
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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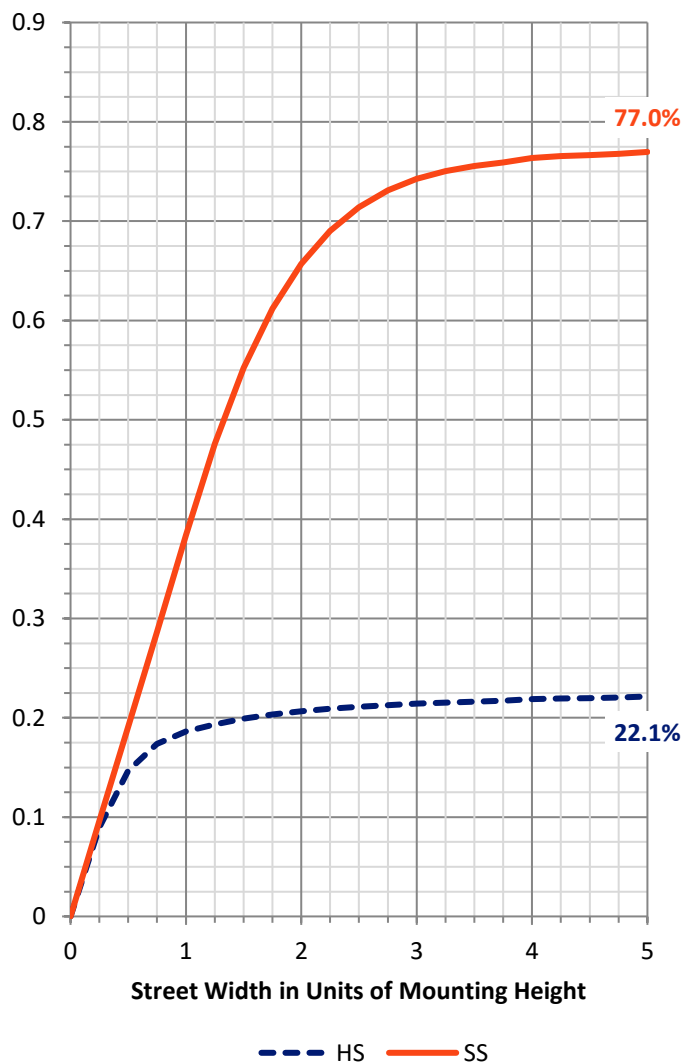
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1564.6	0.0	1564.6
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	5334.4	0.0	5334.4
	% Fixture	77.3	0.0	77.3
Total	Lumens	6899.0	0.0	6899.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.1	1.0
10°-20°	222.6	3.2
20°-30°	398.8	5.8
30°-40°	599.9	8.7
40°-50°	971.4	14.1
50°-60°	1462.3	21.2
60°-70°	1721.0	24.9
70°-80°	1220.3	17.7
80°-90°	232.5	3.4
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°	6899.0	100.0
0°-180°	6899.0	100.0

Coefficient of Utilization

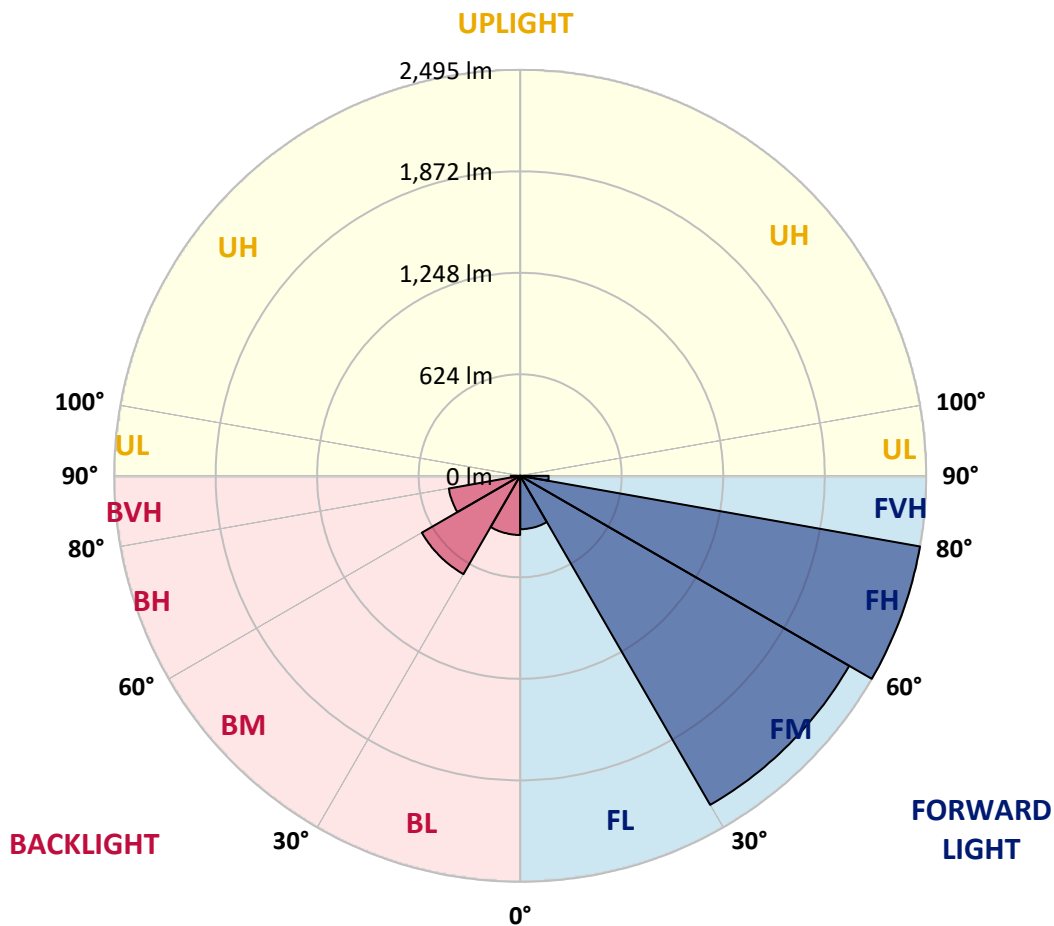


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	328.1	4.8			
FM (30°-60°)	2335.5	33.9			
FH (60°-80°)	2495.4	36.2			G2/5000
FVH (80°-90°)	175.4	2.5			G2/225
BL (0°-30°)	363.4	5.3	B1/500		
BM (30°-60°)	698.1	10.1	B1/1000		
BH (60°-80°)	445.9	6.5	B1/500		G1/500
BVH (80°-90°)	57.1	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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	727.7	727.7	727.7	727.7	727.7	727.7	727.7	727.7	727.7	727.7	727.7
2.5°	700.4	696.7	697.6	697.6	701.3	703.1	704.0	706.8	708.6	713.1	719.5
5°	667.6	664.9	665.8	666.7	673.1	679.4	684.9	688.5	694.0	701.3	710.4
7.5°	643.9	642.1	643.0	644.8	650.3	657.6	666.7	672.1	680.3	694.0	709.5
10°	626.6	626.6	627.5	631.2	636.6	645.7	653.0	659.4	675.8	700.4	724.1
12.5°	612.9	612.9	615.7	623.0	632.1	641.2	658.5	665.8	687.6	721.3	749.6
15°	612.0	612.9	613.9	620.2	630.2	650.3	675.8	686.7	713.1	753.2	786.0
17.5°	626.6	627.5	623.9	625.7	637.5	665.8	699.5	712.2	745.9	789.6	823.3
20°	671.2	671.2	660.3	650.3	658.5	689.4	727.7	740.4	777.8	826.1	859.8
22.5°	762.3	766.9	741.4	719.5	706.8	724.1	758.7	772.3	814.2	866.1	899.8
25°	872.5	877.1	842.5	811.5	787.8	785.1	807.8	822.4	857.0	910.8	939.0
27.5°	979.1	970.9	939.0	909.8	879.8	855.2	872.5	885.3	925.3	966.3	983.6
30°	1062.9	1056.5	1025.5	1004.6	976.3	944.5	934.4	948.1	980.9	1019.1	1028.2
32.5°	1155.8	1151.2	1120.2	1092.9	1069.2	1039.2	1017.3	1023.7	1041.9	1069.2	1074.7
35°	1274.2	1284.2	1251.4	1195.8	1169.4	1140.3	1124.8	1126.6	1140.3	1157.6	1148.5
37.5°	1398.9	1410.8	1412.6	1325.2	1289.6	1263.2	1246.8	1253.2	1269.6	1281.4	1253.2
40°	1630.3	1618.4	1571.1	1506.4	1451.8	1426.3	1403.5	1402.6	1414.4	1435.4	1384.4
42.5°	1937.2	1926.3	1830.6	1746.8	1660.3	1631.2	1586.5	1567.4	1572.9	1599.3	1528.3
45°	2231.4	2226.8	2150.3	2052.9	1949.0	1892.6	1790.6	1744.1	1739.6	1760.5	1675.8
47.5°	2492.8	2472.7	2417.2	2341.6	2330.6	2183.1	1995.5	1932.6	1910.8	1922.6	1827.9
50°	2772.4	2704.0	2627.5	2581.1	2660.3	2522.8	2202.2	2136.6	2082.9	2091.1	1992.7
52.5°	2920.8	2806.1	2756.0	2769.6	2876.2	2823.4	2427.2	2347.0	2260.5	2272.3	2156.7
55°	2793.3	2792.4	2814.3	2899.0	3047.4	2986.4	2641.2	2551.0	2456.3	2459.1	2345.2
57.5°	2618.4	2654.0	2766.9	2953.6	3259.6	3157.6	2851.6	2756.0	2669.4	2655.8	2559.2
60°	2459.1	2498.2	2662.2	2944.5	3333.4	3314.3	3052.0	2968.2	2898.0	2858.0	2784.2
62.5°	2216.8	2245.9	2478.2	2886.2	3271.5	3427.2	3255.1	3197.7	3144.9	3062.0	3026.5
65°	1931.7	1941.7	2186.7	2694.0	3194.0	3470.9	3457.2	3431.7	3380.7	3258.7	3266.0
67.5°	1623.0	1643.0	1858.0	2387.1	3024.6	3450.9	3613.9	3634.8	3574.7	3391.7	3419.0
70°	1294.2	1318.8	1481.8	1962.7	2736.8	3364.4	3758.7	3792.4	3676.7	3435.4	3447.2
72.5°	800.6	824.2	933.5	1363.4	2169.4	3073.8	3803.3	3847.1	3679.5	3377.1	3263.3
75°	276.9	279.6	365.2	653.9	1287.8	2320.6	3657.6	3760.5	3563.8	3164.9	2839.8
77.5°	126.6	131.1	162.1	269.6	571.0	1252.3	3020.1	3277.8	3212.3	2833.4	2185.8
80°	87.4	89.3	112.0	161.2	329.7	440.8	1906.2	2242.3	2357.0	2194.0	1400.8
82.5°	65.6	67.4	86.5	109.3	237.7	214.0	725.9	1041.9	1295.1	1271.4	585.6
85°	62.8	61.9	67.4	72.9	158.5	127.5	235.0	322.4	505.5	432.6	147.5
87.5°	27.3	30.1	69.2	41.0	82.9	59.2	102.0	119.3	153.9	133.9	52.8
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°	727.7	727.7	727.7	727.7	727.7	727.7	727.7	727.7	727.7	727.7	727.7
2.5°	722.2	724.1	729.5	737.7	742.3	751.4	757.8	761.4	764.1	765.0	765.0
5°	715.9	719.5	731.3	745.0	757.8	776.9	794.2	804.2	811.5	814.2	815.1
7.5°	717.7	726.8	744.1	764.1	780.5	805.1	826.1	846.1	862.5	868.9	868.9
10°	735.0	747.7	771.4	797.8	818.8	844.3	866.1	883.4	902.6	913.5	915.3
12.5°	761.4	776.9	807.8	837.0	860.7	880.7	900.7	913.5	922.6	930.8	932.6
15°	798.7	817.9	848.8	878.9	899.8	912.6	918.0	918.0	917.1	918.0	919.9
17.5°	836.1	854.3	885.3	915.3	925.3	918.0	911.7	909.8	908.9	907.1	908.0
20°	872.5	889.8	916.2	939.0	930.8	905.3	897.1	896.2	893.5	891.6	889.8
22.5°	908.9	921.7	943.5	951.7	919.0	882.5	872.5	867.0	863.4	858.8	854.3
25°	950.8	954.5	970.9	958.1	889.8	840.6	826.1	817.9	814.2	809.7	806.0
27.5°	990.0	990.0	992.7	948.1	847.0	785.1	763.2	748.6	747.7	746.8	745.9
30°	1025.5	1021.0	1011.9	918.0	791.5	716.8	684.0	669.4	674.9	679.4	680.3
32.5°	1067.4	1058.3	1032.8	877.1	725.0	640.3	600.2	593.8	600.2	605.7	602.0
35°	1133.0	1116.6	1054.7	829.7	661.2	570.1	531.9	522.8	521.0	520.0	512.8
37.5°	1226.8	1198.6	1072.0	778.7	598.4	508.2	480.0	460.8	443.5	425.3	422.6
40°	1341.6	1293.3	1083.8	720.4	531.9	456.3	426.2	401.6	372.5	340.6	337.0
42.5°	1467.2	1395.3	1089.3	655.7	473.6	413.5	376.1	345.2	312.4	287.8	283.2
45°	1602.9	1505.5	1084.7	593.8	426.2	377.1	335.2	301.5	275.0	257.7	254.1
47.5°	1735.0	1632.1	1072.0	544.6	389.8	346.1	303.3	272.3	252.3	233.2	228.6
50°	1904.4	1753.2	1056.5	506.4	349.7	315.1	283.2	250.5	227.7	218.6	216.8
52.5°	2092.0	1874.3	1038.3	458.1	310.6	290.5	270.5	241.4	234.1	216.8	214.0
55°	2295.1	2018.2	1034.6	397.1	276.0	273.2	257.7	249.5	251.4	216.8	212.2
57.5°	2509.1	2172.2	1042.8	336.1	247.7	257.7	263.2	256.8	254.1	221.3	212.2
60°	2732.3	2320.6	1018.2	279.6	225.9	245.0	269.6	253.2	233.2	219.5	213.1
62.5°	2949.0	2445.4	911.7	239.5	209.5	241.4	265.9	239.5	216.8	216.8	214.0
65°	3106.6	2500.9	713.1	210.4	198.5	236.8	259.6	230.4	212.2	218.6	214.9
67.5°	3124.8	2443.6	479.1	187.6	189.4	228.6	245.0	222.2	207.7	224.0	218.6
70°	3012.8	2294.2	293.3	170.3	177.6	214.0	232.2	214.0	201.3	219.5	211.3
72.5°	2722.3	2015.5	206.7	155.7	164.8	200.4	220.4	206.7	192.2	198.5	190.3
75°	2233.2	1562.0	163.9	142.1	152.1	187.6	210.4	195.8	181.2	178.5	173.0
77.5°	1582.0	1000.9	132.1	131.1	138.4	172.1	196.7	183.1	168.5	163.0	159.4
80°	909.8	490.9	113.8	118.4	125.7	156.7	180.3	168.5	154.8	146.6	141.2
82.5°	347.9	171.2	100.2	102.9	111.1	140.3	163.9	153.9	140.3	147.5	123.9
85°	112.9	93.8	82.0	84.7	92.9	116.6	144.8	136.6	121.1	107.5	99.3
87.5°	50.1	51.0	43.7	48.3	58.3	77.4	105.6	100.2	88.3	73.8	71.0
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)