

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: P380988

Luminaire Tested: **PRV-PA1A-730-U-T4W**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P380988
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)
Test Lab: INNOVATIONS CENTER
Issue Date: 1/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-PA1A-730-U-T4W
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6816 lumens
Efficiency: N/A
Efficacy: 126.2 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

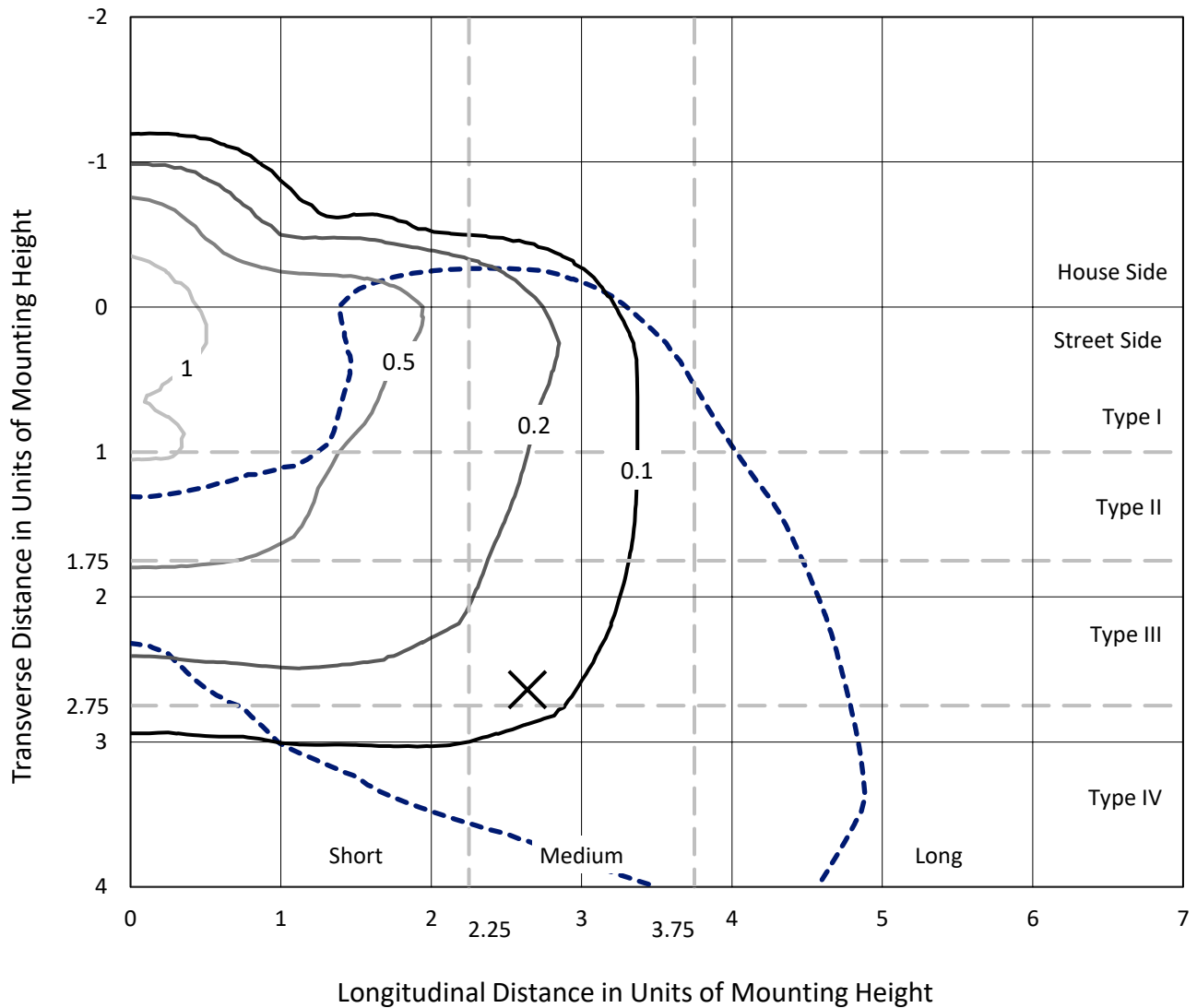
Input Watts (W): 54
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

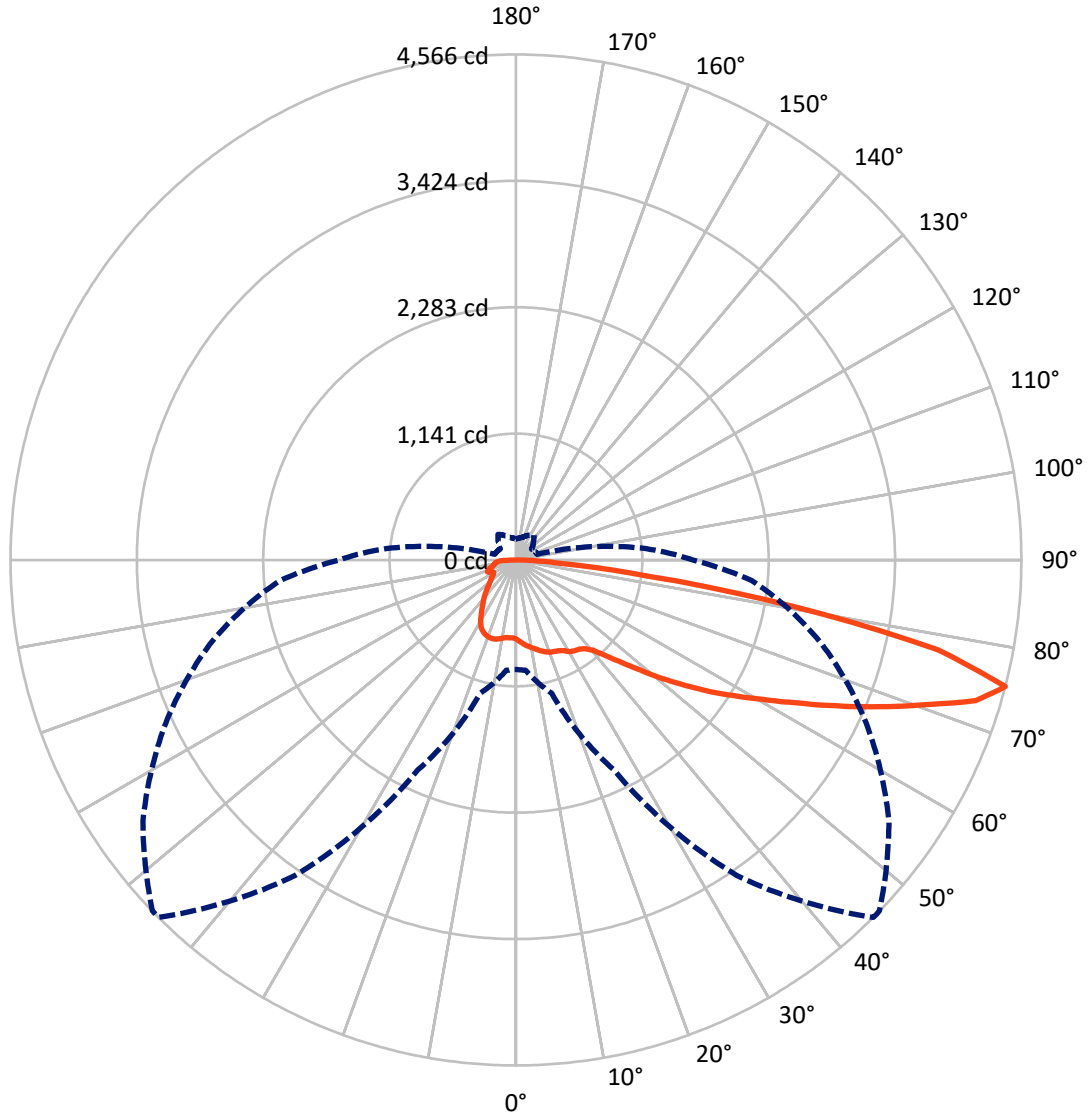
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical



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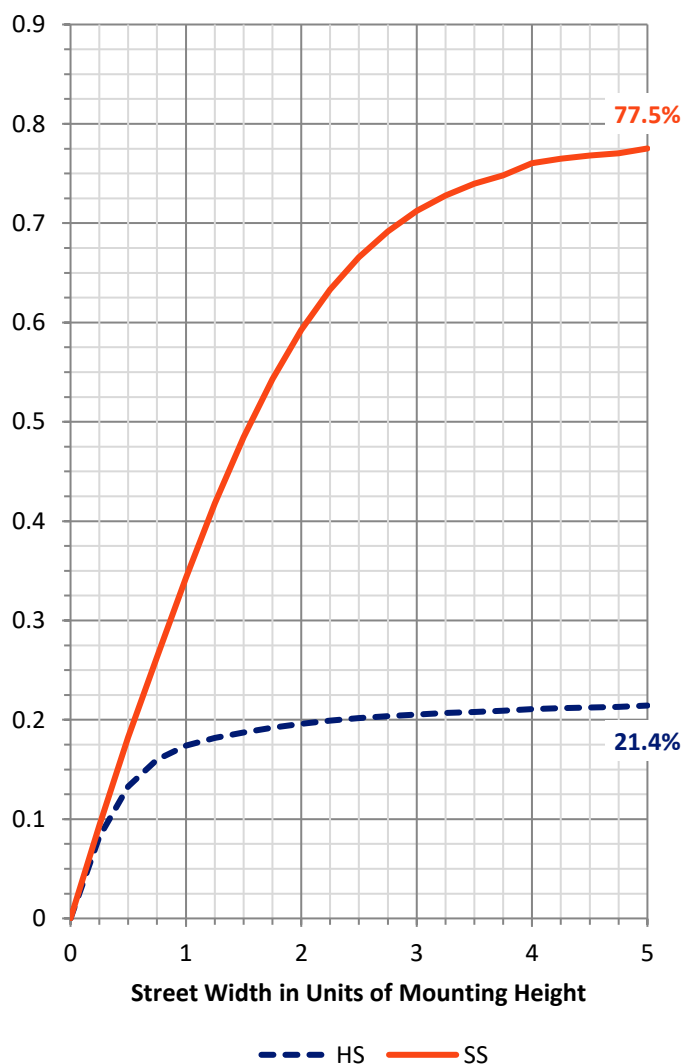
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1506.3	0.0	1506.3
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	5309.7	0.0	5309.7
	% Fixture	77.9	0.0	77.9
Total	Lumens	6816.0	0.0	6816.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.8	1.0
10°-20°	225.3	3.3
20°-30°	384.1	5.6
30°-40°	538.2	7.9
40°-50°	790.6	11.6
50°-60°	1258.3	18.5
60°-70°	1789.9	26.3
70°-80°	1498.7	22.0
80°-90°	260.1	3.8
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°	6816.0	100.0
0°-180°	6816.0	100.0

Coefficient of Utilization

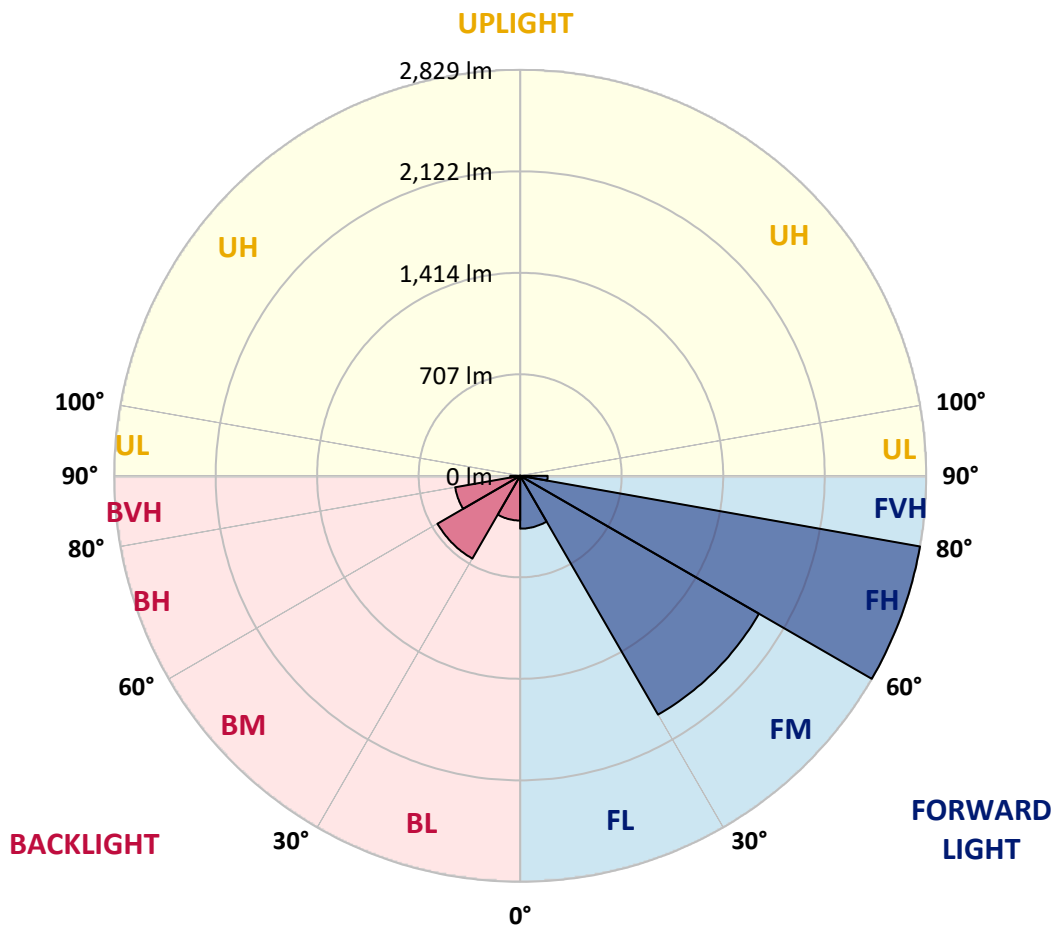


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	368.4	5.4			
FM (30°-60°)	1921.2	28.2			
FH (60°-80°)	2828.8	41.5			G2/5000
FVH (80°-90°)	191.2	2.8			G2/225
BL (0°-30°)	311.7	4.6	B1/500		
BM (30°-60°)	665.9	9.8	B1/1000		
BH (60°-80°)	459.8	6.7	B1/500		G1/500
BVH (80°-90°)	68.9	1.0			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°	46°	55°	65°	75°	85°
0°	715.8	715.8	715.8	715.8	715.8	715.8	715.8	715.8	715.8	715.8	715.8
2.5°	756.8	753.2	751.3	751.3	744.1	739.5	738.6	732.2	726.8	721.3	716.7
5°	800.5	797.8	792.3	787.8	777.8	765.0	763.2	749.5	735.9	723.1	712.2
7.5°	840.6	835.1	828.8	819.7	803.3	786.0	783.2	764.1	745.0	725.8	711.3
10°	874.3	868.8	859.7	847.0	826.0	805.1	802.3	782.3	762.3	739.5	718.6
12.5°	906.2	901.6	888.0	870.7	846.1	826.9	824.2	806.9	786.0	760.5	733.1
15°	933.5	928.9	914.4	894.3	866.1	851.5	847.9	831.5	810.5	783.2	755.0
17.5°	947.2	947.2	931.7	909.8	883.4	872.5	869.7	849.7	830.6	804.2	775.9
20°	951.7	953.5	942.6	916.2	893.4	888.9	886.1	869.7	847.9	822.4	796.0
22.5°	954.4	958.1	949.0	918.9	899.8	897.1	895.2	884.3	867.0	842.4	816.0
25°	963.5	963.5	957.2	923.5	908.0	907.1	907.1	900.7	888.9	867.9	841.5
27.5°	977.2	976.3	968.1	933.5	926.2	928.9	928.0	927.1	918.9	898.0	869.7
30°	1000.0	1000.0	990.9	953.5	949.0	960.8	961.7	963.5	950.8	918.0	895.2
32.5°	1034.6	1030.9	1021.8	973.6	966.3	977.2	979.0	978.1	967.2	936.2	925.3
35°	1141.1	1132.9	1100.2	1018.2	981.8	988.1	989.0	993.6	995.4	970.8	965.4
37.5°	1327.8	1316.9	1266.8	1123.8	1030.9	1015.5	1014.5	1026.4	1036.4	1014.5	1014.5
40°	1530.9	1521.8	1492.7	1306.0	1122.0	1071.0	1067.4	1078.3	1091.0	1075.6	1080.1
42.5°	1705.8	1713.1	1715.8	1499.1	1258.6	1174.8	1164.8	1149.3	1169.4	1155.7	1173.9
45°	1836.9	1833.3	1883.4	1696.7	1435.3	1305.1	1291.4	1249.5	1275.0	1274.1	1314.2
47.5°	1976.3	1969.9	1990.8	1882.5	1636.6	1464.4	1443.5	1381.6	1419.8	1446.2	1512.7
50°	2108.3	2110.1	2117.4	2029.1	1855.1	1658.4	1632.0	1549.1	1603.8	1659.3	1753.1
52.5°	2280.5	2267.7	2258.6	2200.3	2100.1	1860.6	1843.3	1748.6	1825.1	1890.7	2015.4
55°	2430.7	2422.5	2417.1	2414.3	2305.0	2083.7	2065.5	1967.2	2077.4	2123.8	2307.8
57.5°	2591.0	2586.5	2615.6	2662.0	2618.3	2310.5	2291.4	2196.7	2319.6	2352.4	2624.7
60°	2708.5	2711.2	2791.4	2909.8	2879.7	2556.4	2533.6	2449.8	2555.5	2584.6	2941.6
62.5°	2709.4	2736.7	2922.5	3134.7	3169.3	2839.6	2813.2	2722.2	2797.7	2797.7	3225.8
65°	2450.8	2481.7	2898.8	3190.3	3462.6	3176.6	3151.1	3008.1	3036.4	2998.1	3492.6
67.5°	2193.0	2229.5	2622.0	3194.8	3668.4	3537.3	3507.2	3294.1	3245.8	3149.3	3679.3
70°	2021.8	2047.3	2375.2	3135.6	3792.3	3914.3	3891.5	3565.5	3410.7	3275.9	3640.2
72.5°	1702.1	1693.0	2006.3	2854.2	3861.5	4342.3	4323.2	3860.6	3553.6	3215.8	3104.7
75°	988.1	999.1	1245.0	2091.0	3480.8	4565.5	4563.6	4112.8	3490.8	2840.5	2139.3
77.5°	285.1	293.3	408.9	918.9	2201.2	3894.3	4019.0	3761.3	2950.7	2024.5	1109.3
80°	124.8	131.1	177.6	306.0	948.1	2543.7	2652.9	2543.7	1779.6	928.9	435.3
82.5°	73.8	78.3	115.7	189.4	454.5	1210.4	1357.9	1185.8	767.7	394.3	180.3
85°	41.9	43.7	66.5	120.2	286.0	423.5	475.4	445.3	374.3	224.0	94.7
87.5°	19.1	20.0	32.8	56.5	160.3	143.0	148.4	196.7	216.8	136.6	47.4
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°	715.8	715.8	715.8	715.8	715.8	715.8	715.8	715.8	715.8	715.8	715.8
2.5°	714.9	712.2	706.7	704.9	702.2	703.1	704.0	704.0	704.9	702.2	702.2
5°	707.6	703.1	697.6	697.6	697.6	704.9	711.3	714.9	716.7	716.7	714.9
7.5°	704.9	699.4	693.1	694.9	696.7	705.8	717.7	729.5	733.1	733.1	731.3
10°	710.4	704.9	700.3	703.1	707.6	714.9	724.0	735.0	744.1	745.0	744.1
12.5°	723.1	716.7	712.2	717.7	723.1	727.7	732.2	736.8	748.6	750.4	750.4
15°	744.1	737.7	732.2	736.8	738.6	738.6	738.6	738.6	750.4	752.3	752.3
17.5°	765.0	759.5	754.1	755.0	749.5	742.2	739.5	738.6	745.0	750.4	751.3
20°	785.0	780.5	775.0	765.9	752.3	738.6	734.0	734.0	737.7	745.9	745.9
22.5°	806.9	801.4	792.3	771.4	748.6	729.5	724.9	727.7	732.2	743.2	742.2
25°	831.5	824.2	808.7	769.6	736.8	714.0	714.9	723.1	731.3	743.2	743.2
27.5°	858.8	848.8	817.8	755.0	710.4	688.5	696.7	715.8	727.7	740.4	742.2
30°	888.9	879.8	825.1	729.5	667.6	647.5	667.6	698.5	716.7	728.6	731.3
32.5°	925.3	918.0	831.5	696.7	612.0	594.7	623.8	662.1	691.2	704.9	707.6
35°	970.8	963.5	839.7	659.4	560.1	541.9	568.3	607.5	645.7	663.0	668.5
37.5°	1030.0	1019.1	847.0	619.3	516.4	495.4	508.2	543.7	578.3	602.0	608.4
40°	1105.6	1088.3	853.3	573.8	478.1	454.5	459.0	476.3	496.3	517.3	525.5
42.5°	1212.2	1177.6	854.3	525.5	439.0	417.1	415.3	420.8	420.8	420.8	423.5
45°	1360.6	1295.0	856.1	480.0	398.9	376.1	370.7	368.8	355.2	328.8	326.9
47.5°	1548.2	1449.0	864.3	441.7	357.0	337.0	329.7	322.4	296.9	269.6	264.1
50°	1788.7	1627.5	880.7	405.3	321.5	307.8	298.7	281.4	253.2	232.2	226.8
52.5°	2065.5	1839.7	896.2	367.0	295.1	286.0	275.0	254.1	224.0	211.3	209.5
55°	2383.4	2076.5	927.1	333.3	272.3	265.9	255.9	235.9	213.1	204.0	203.1
57.5°	2708.5	2341.5	970.8	303.3	250.4	246.8	246.8	229.5	214.9	211.3	211.3
60°	3021.8	2569.2	937.1	275.0	230.4	232.2	249.5	245.0	234.1	238.6	241.3
62.5°	3264.9	2703.0	760.5	252.3	215.8	232.2	276.9	276.9	264.1	262.3	262.3
65°	3368.8	2701.2	534.6	235.0	210.4	255.0	308.7	294.2	260.5	247.7	245.0
67.5°	3342.4	2582.8	368.8	223.1	208.6	278.7	323.3	282.3	244.1	233.1	224.9
70°	3110.1	2332.4	284.1	212.2	205.8	268.7	318.8	268.7	231.3	221.3	214.0
72.5°	2509.0	1870.6	235.9	201.3	194.9	248.6	303.3	255.9	221.3	210.4	203.1
75°	1600.1	1176.7	199.4	186.7	173.9	223.1	282.3	243.2	210.4	195.8	190.3
77.5°	769.6	507.3	173.9	169.4	156.6	206.7	261.4	226.8	195.8	184.0	180.3
80°	311.5	232.2	151.2	152.1	143.9	196.7	246.8	211.3	181.2	168.5	162.1
82.5°	162.1	134.8	127.5	131.1	131.1	187.6	235.9	198.5	168.5	163.0	142.1
85°	87.4	83.8	98.4	105.6	113.8	169.4	219.5	184.9	153.9	132.1	127.5
87.5°	42.8	54.6	55.6	63.8	79.2	135.7	184.9	154.8	128.4	106.6	104.7
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)