

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: P380869

Luminaire Tested: **PRV-PA1B-740-U-T2R**

Issue Date: 1/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P380869  
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-PA1B-740-U-T2R  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

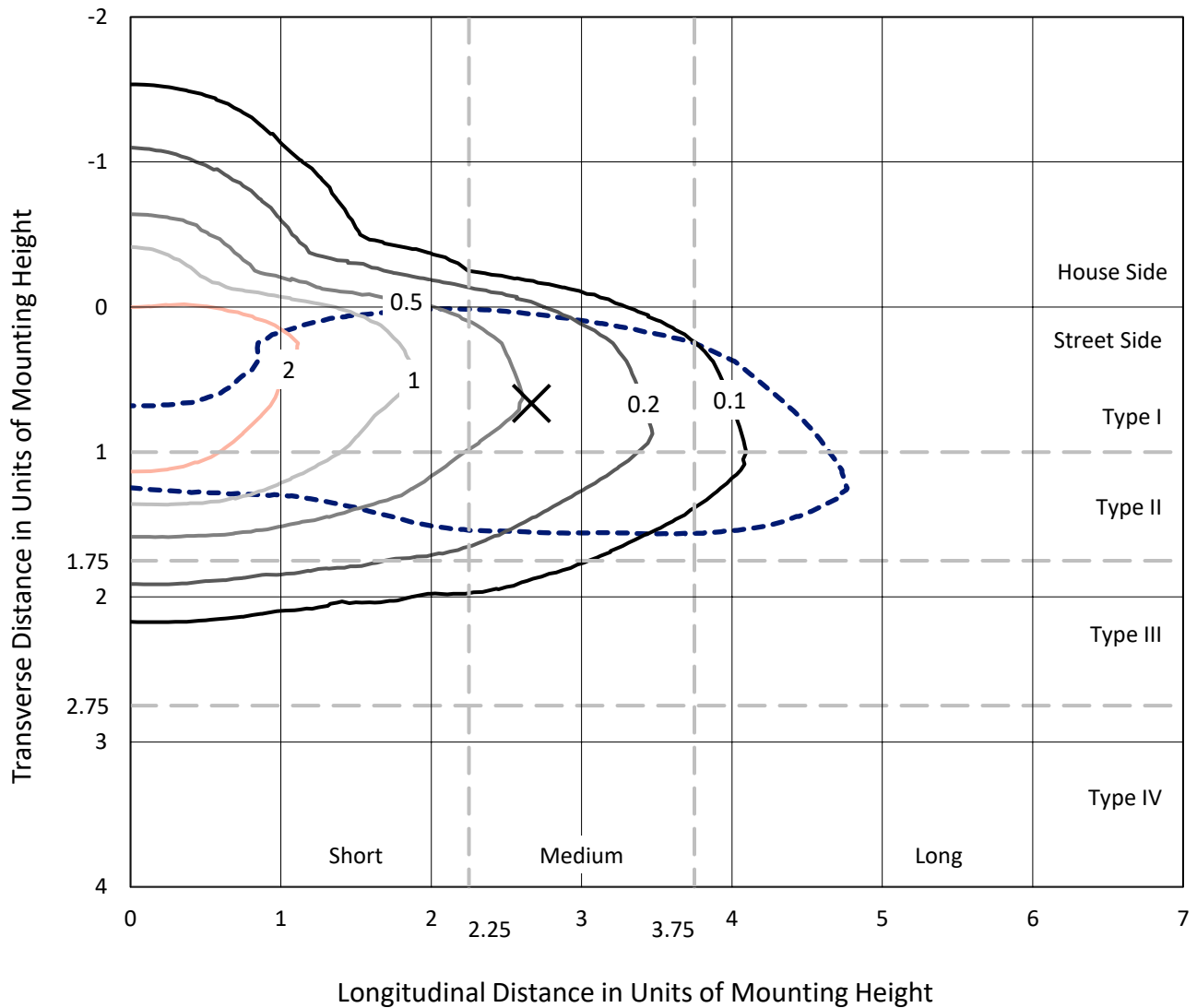
Lumens per Lamp: N/A  
Luminaire Lumens: 9896 lumens  
Efficiency: N/A  
Efficacy: 133.7 lumens/watt  
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 74  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

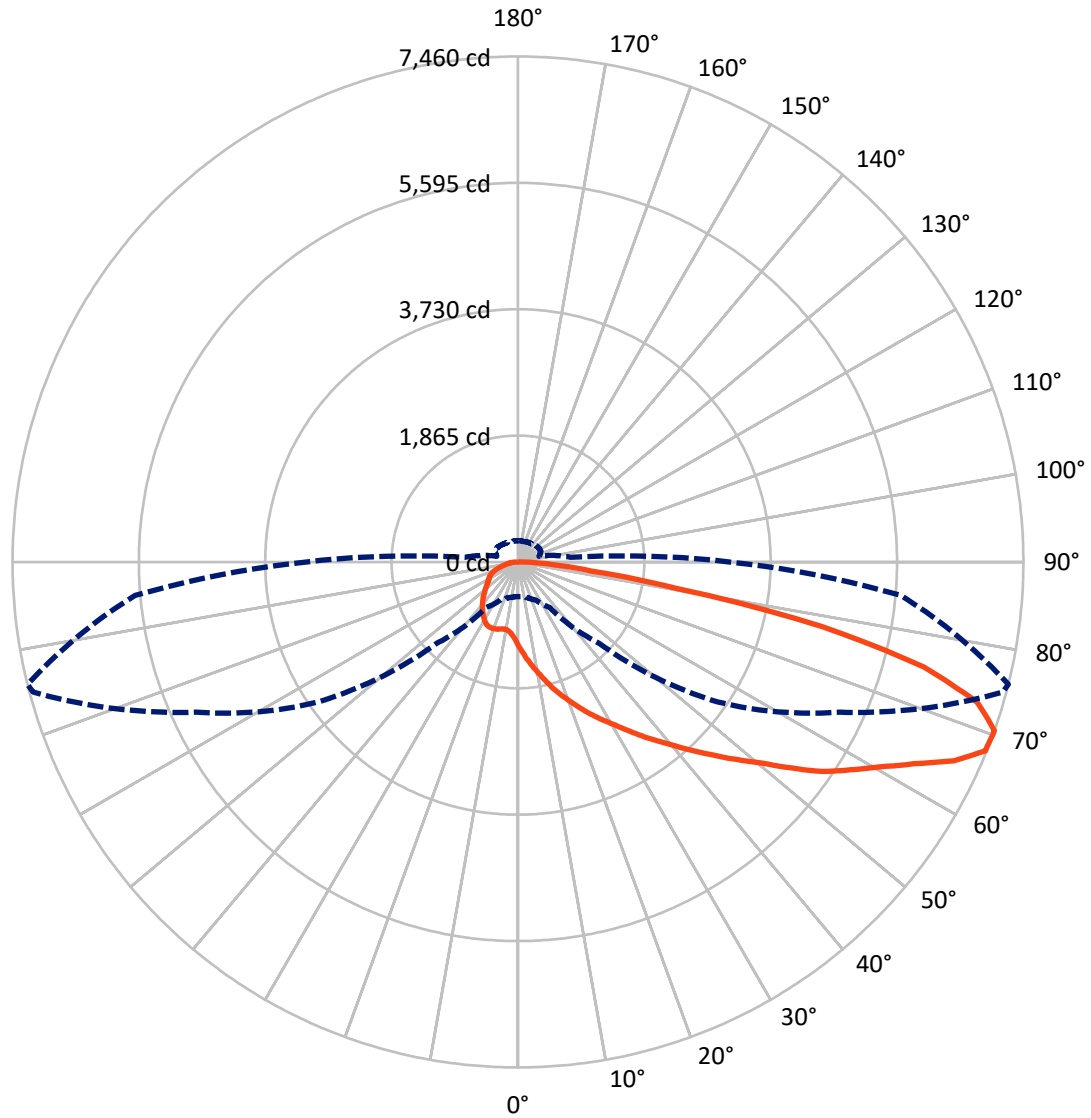
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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

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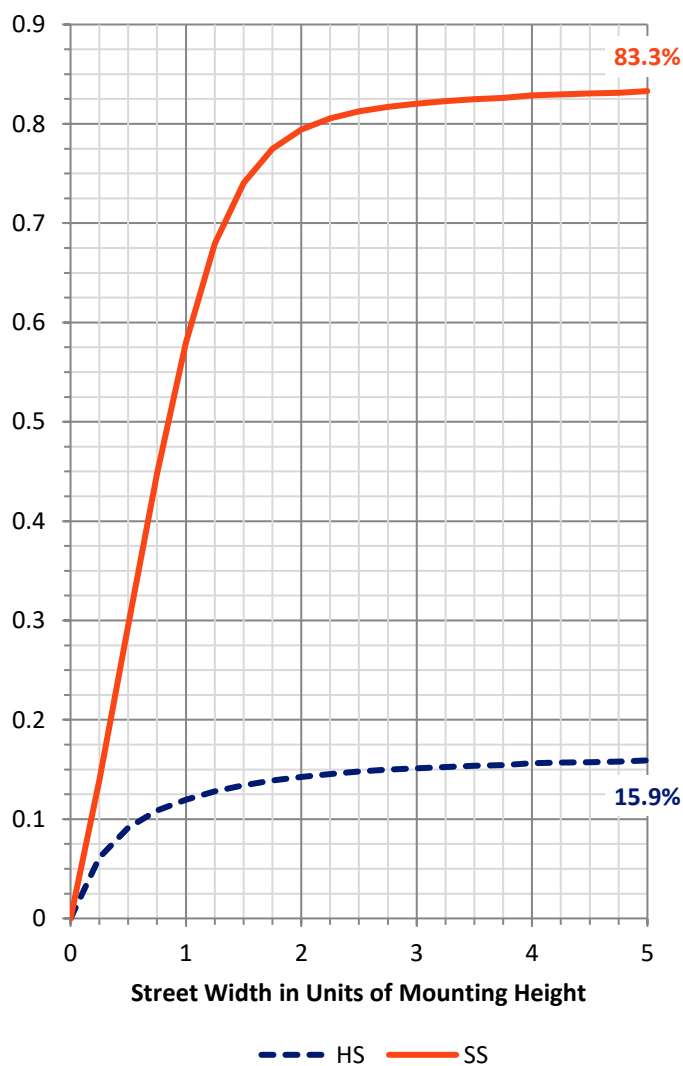
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1615.6	0.0	1615.6
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	8280.4	0.0	8280.4
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	9896.0	0.0	9896.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.6	1.3
10°-20°	437.0	4.4
20°-30°	781.9	7.9
30°-40°	1264.8	12.8
40°-50°	1829.7	18.5
50°-60°	2094.3	21.2
60°-70°	1926.5	19.5
70°-80°	1191.3	12.0
80°-90°	241.9	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°	9896.0	100.0
0°-180°	9896.0	100.0

**Coefficient of Utilization**



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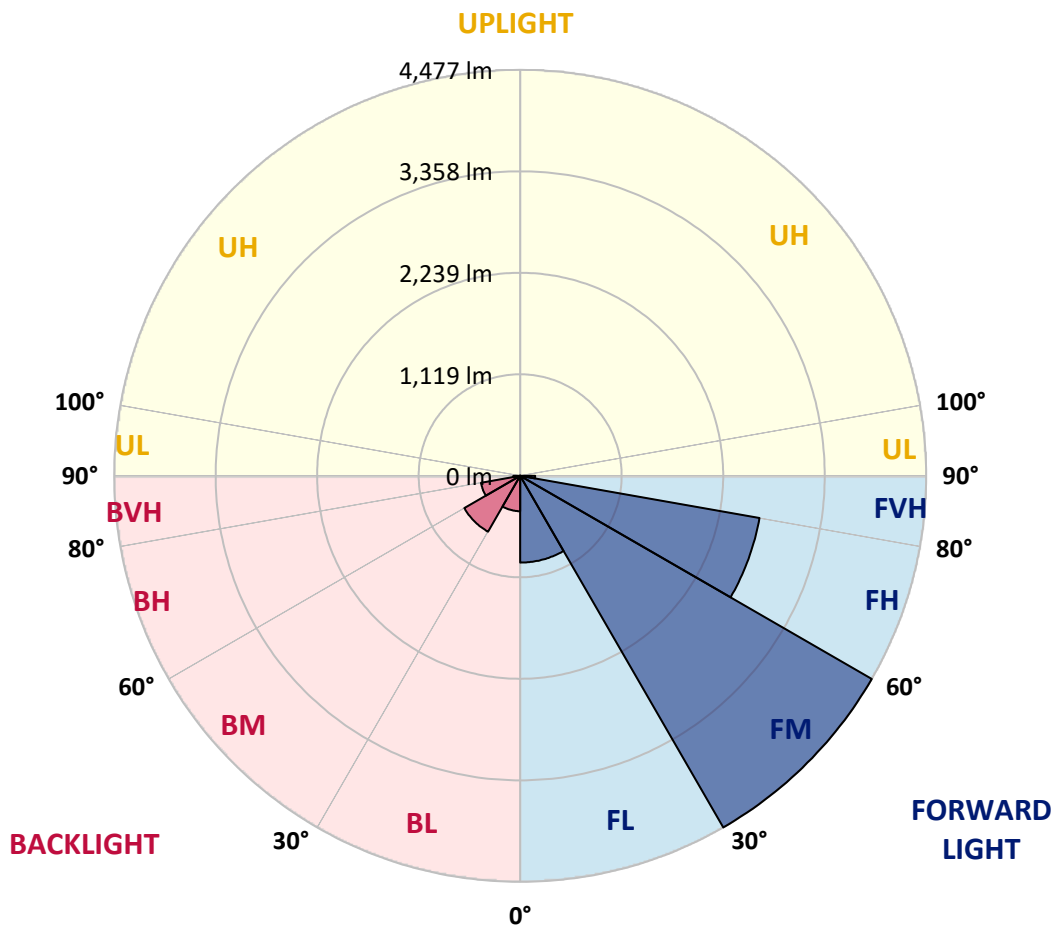
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	957.3	9.7			
FM (30°-60°)	4477.5	45.2			
FH (60°-80°)	2679.6	27.1			G2/5000
FVH (80°-90°)	166.1	1.7			G2/225
BL (0°-30°)	390.2	3.9	B1/500		
BM (30°-60°)	711.3	7.2	B1/1000		
BH (60°-80°)	438.2	4.4	B1/500		G1/500
BVH (80°-90°)	75.8	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1237.5	1237.5	1237.5	1237.5	1237.5	1237.5	1237.5	1237.5	1237.5	1237.5	1237.5
2.5°	1577.2	1565.5	1564.2	1545.9	1529.0	1483.5	1451.0	1393.7	1336.4	1335.1	1277.9
5°	1823.1	1811.4	1804.9	1782.8	1754.2	1694.3	1635.7	1547.2	1449.6	1443.1	1335.1
7.5°	1989.7	1979.3	1966.3	1957.2	1929.8	1876.5	1804.9	1699.5	1565.5	1552.5	1401.5
10°	2101.6	2095.1	2092.5	2086.0	2069.1	2026.1	1957.2	1845.2	1681.3	1667.0	1471.8
12.5°	2149.7	2147.1	2158.9	2177.1	2183.6	2166.7	2100.3	1994.9	1808.8	1793.2	1556.4
15°	2093.8	2096.4	2126.3	2188.8	2255.2	2291.6	2252.6	2149.7	1953.3	1931.1	1655.3
17.5°	2067.8	2071.7	2092.5	2152.4	2246.0	2359.3	2377.5	2296.8	2092.5	2061.3	1759.4
20°	2113.3	2118.5	2134.1	2181.0	2246.0	2367.1	2462.1	2437.3	2229.1	2196.6	1859.6
22.5°	2229.1	2235.6	2234.3	2264.3	2308.5	2391.8	2508.9	2570.1	2372.3	2335.8	1963.7
25°	2476.4	2471.2	2426.9	2412.6	2424.3	2477.7	2571.4	2697.6	2521.9	2485.5	2073.0
27.5°	2812.1	2805.6	2724.9	2652.1	2587.0	2610.4	2659.9	2800.4	2674.2	2632.5	2177.1
30°	3171.3	3163.5	3069.8	2951.4	2806.9	2773.1	2766.6	2890.2	2827.7	2783.5	2287.7
32.5°	3521.3	3514.8	3414.6	3276.7	3077.6	2976.1	2913.6	2990.4	3002.1	2959.2	2408.7
35°	3840.1	3840.1	3754.3	3590.3	3365.2	3211.6	3108.8	3114.0	3202.5	3153.1	2546.6
37.5°	4123.8	4122.5	4028.8	3867.5	3651.5	3475.8	3348.2	3263.7	3393.8	3350.8	2691.1
40°	4348.9	4339.8	4270.9	4130.3	3913.0	3738.6	3609.8	3439.3	3607.2	3568.2	2844.6
42.5°	4512.9	4507.7	4460.9	4338.5	4131.6	3967.7	3879.2	3660.6	3849.2	3810.2	3024.2
45°	4576.7	4587.1	4587.1	4471.3	4307.3	4157.7	4118.6	3903.9	4110.8	4071.8	3216.8
47.5°	4473.9	4501.2	4557.2	4565.0	4420.5	4319.0	4332.0	4148.5	4380.2	4359.4	3427.6
50°	4152.5	4203.2	4325.5	4546.7	4466.1	4442.6	4514.2	4398.4	4669.1	4662.6	3684.0
52.5°	3323.5	3447.1	3828.4	4225.3	4434.8	4499.9	4695.1	4679.5	5041.2	5051.7	4018.4
55°	2549.2	2596.1	3037.2	3712.6	4243.5	4481.7	4816.1	4954.1	5444.6	5457.7	4325.5
57.5°	2061.3	2092.5	2333.2	3037.2	3807.6	4382.8	4911.1	5114.1	5754.4	5788.2	4598.8
60°	1633.1	1678.7	1840.0	2324.1	3197.3	4144.6	4977.5	5292.4	6087.5	6138.2	4925.4
62.5°	1214.1	1236.2	1388.5	1721.6	2531.0	3716.5	4942.3	5486.3	6496.1	6557.3	5318.4
65°	864.1	883.6	991.6	1224.5	1871.3	3137.4	4738.0	5630.7	7008.8	7071.3	5714.0
67.5°	646.7	654.6	715.7	856.3	1261.0	2437.3	4324.2	5606.0	7383.6	7439.5	5872.8
70°	511.4	514.0	543.9	619.4	819.8	1696.9	3599.4	5242.9	7410.9	7460.4	5672.4
72.5°	424.2	422.9	439.8	476.3	571.3	1073.6	2666.4	4568.9	7059.6	7093.4	5112.8
75°	350.0	352.7	364.4	385.2	435.9	707.9	1728.1	3644.9	6228.0	6191.6	4290.4
77.5°	294.1	292.8	298.0	316.2	352.7	508.8	1012.4	2633.8	4615.7	4597.5	2816.0
80°	236.8	239.4	247.2	262.9	296.7	387.8	598.6	1643.5	2476.4	2410.0	1345.5
82.5°	158.8	183.5	199.1	217.3	256.4	286.3	380.0	835.4	1107.4	1090.5	610.3
85°	75.5	100.2	148.3	169.2	208.2	179.6	257.7	398.2	554.4	547.8	219.9
87.5°	15.6	15.6	79.4	95.0	128.8	76.8	143.1	173.1	268.1	251.2	89.8
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°	1237.5	1237.5	1237.5	1237.5	1237.5	1237.5	1237.5	1237.5	1237.5	1237.5	1237.5
2.5°	1244.0	1208.9	1138.6	1082.7	1025.4	992.9	952.6	933.0	929.1	918.7	926.5
5°	1266.2	1197.2	1064.5	977.3	918.7	890.1	875.8	870.6	869.3	866.7	866.7
7.5°	1296.1	1190.7	1017.6	929.1	891.4	882.3	886.2	894.0	895.3	897.9	896.6
10°	1332.5	1192.0	991.6	917.4	899.2	900.5	913.5	923.9	929.1	933.0	931.7
12.5°	1383.3	1207.6	987.7	925.2	917.4	922.6	935.6	946.0	951.3	952.6	952.6
15°	1449.6	1240.1	996.8	942.1	935.6	939.5	947.3	951.3	952.6	951.3	951.3
17.5°	1522.5	1279.2	1009.8	952.6	942.1	938.2	935.6	931.7	923.9	918.7	918.7
20°	1592.8	1314.3	1016.3	951.3	933.0	917.4	901.8	882.3	869.3	858.9	858.9
22.5°	1663.1	1346.8	1016.3	936.9	908.3	878.4	845.8	814.6	795.1	782.1	782.1
25°	1737.2	1378.1	1008.5	912.2	869.3	826.3	782.1	743.0	723.5	710.5	707.9
27.5°	1799.7	1396.3	987.7	877.1	821.1	766.5	715.7	675.4	661.1	649.3	649.3
30°	1866.1	1408.0	948.6	831.5	766.5	704.0	652.0	619.4	603.8	586.9	585.6
32.5°	1940.2	1415.8	904.4	783.4	710.5	644.1	599.9	573.9	540.0	521.8	519.2
35°	2026.1	1426.2	857.6	728.7	654.6	594.7	568.7	525.7	493.2	477.6	476.3
37.5°	2117.2	1434.0	806.8	680.6	603.8	562.2	536.1	485.4	456.8	433.3	430.7
40°	2213.5	1434.0	754.8	633.7	563.5	547.8	498.4	452.9	404.7	393.0	390.4
42.5°	2320.2	1431.4	702.7	588.2	525.7	515.3	476.3	428.1	403.4	393.0	390.4
45°	2433.4	1422.3	653.3	536.1	486.7	465.9	435.9	422.9	412.5	412.5	412.5
47.5°	2562.3	1414.5	597.3	489.3	458.1	434.6	412.5	404.7	403.4	407.3	411.2
50°	2727.5	1411.9	550.5	455.5	435.9	408.6	406.0	399.5	400.8	400.8	400.8
52.5°	2927.9	1388.5	506.2	430.7	413.8	381.3	389.1	395.6	398.2	396.9	395.6
55°	3075.0	1346.8	468.5	413.8	398.2	370.9	381.3	391.7	394.3	390.4	390.4
57.5°	3207.7	1288.3	438.5	400.8	387.8	364.4	376.1	386.5	383.9	382.6	381.3
60°	3360.0	1232.3	415.1	394.3	377.4	361.8	372.2	378.7	374.8	372.2	370.9
62.5°	3525.2	1177.7	398.2	394.3	369.6	360.5	368.3	370.9	363.1	360.5	360.5
65°	3602.0	1091.8	380.0	394.3	365.7	357.9	360.5	357.9	350.0	350.0	348.7
67.5°	3475.8	949.9	356.6	389.1	370.9	354.0	348.7	344.8	335.7	335.7	333.1
70°	3127.0	780.8	322.7	372.2	372.2	352.7	333.1	324.0	313.6	317.5	312.3
72.5°	2671.6	619.4	281.1	343.5	364.4	351.4	316.2	301.9	292.8	296.7	288.9
75°	2164.1	480.2	231.6	298.0	344.8	344.8	299.3	279.8	269.4	269.4	260.3
77.5°	1379.4	355.3	188.7	247.2	309.7	335.7	285.0	255.1	239.4	235.5	229.0
80°	683.2	249.8	154.9	196.5	264.2	314.9	274.6	226.4	204.3	196.5	184.8
82.5°	363.1	173.1	123.6	153.6	210.8	283.7	261.6	195.2	167.9	156.2	143.1
85°	162.7	106.7	98.9	117.1	160.1	232.9	235.5	160.1	128.8	153.6	113.2
87.5°	59.9	48.1	48.1	59.9	92.4	97.6	166.6	102.8	82.0	56.0	44.2
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)