

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: P381181

Luminaire Tested: **PRV-PA1B-730-U-T2R-HSS**

Issue Date: 1/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P381181  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-13)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 1/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-PA1B-730-U-T2R-HSS  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

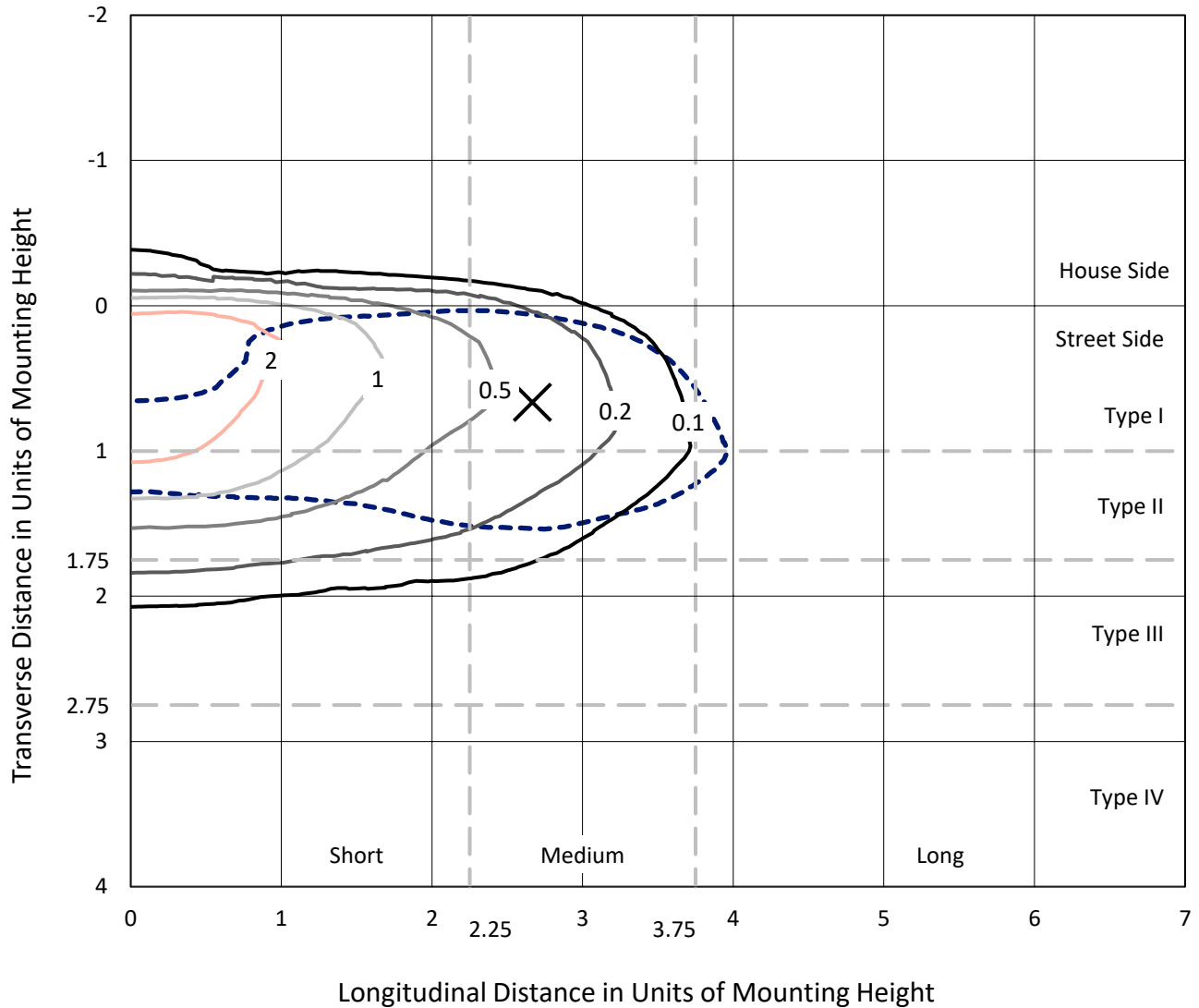
Lumens per Lamp: N/A  
Luminaire Lumens: 7117 lumens  
Efficiency: N/A  
Efficacy: 96.2 lumens/watt  
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B0 - U0 - G2  
  
Input Watts (W): 74  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

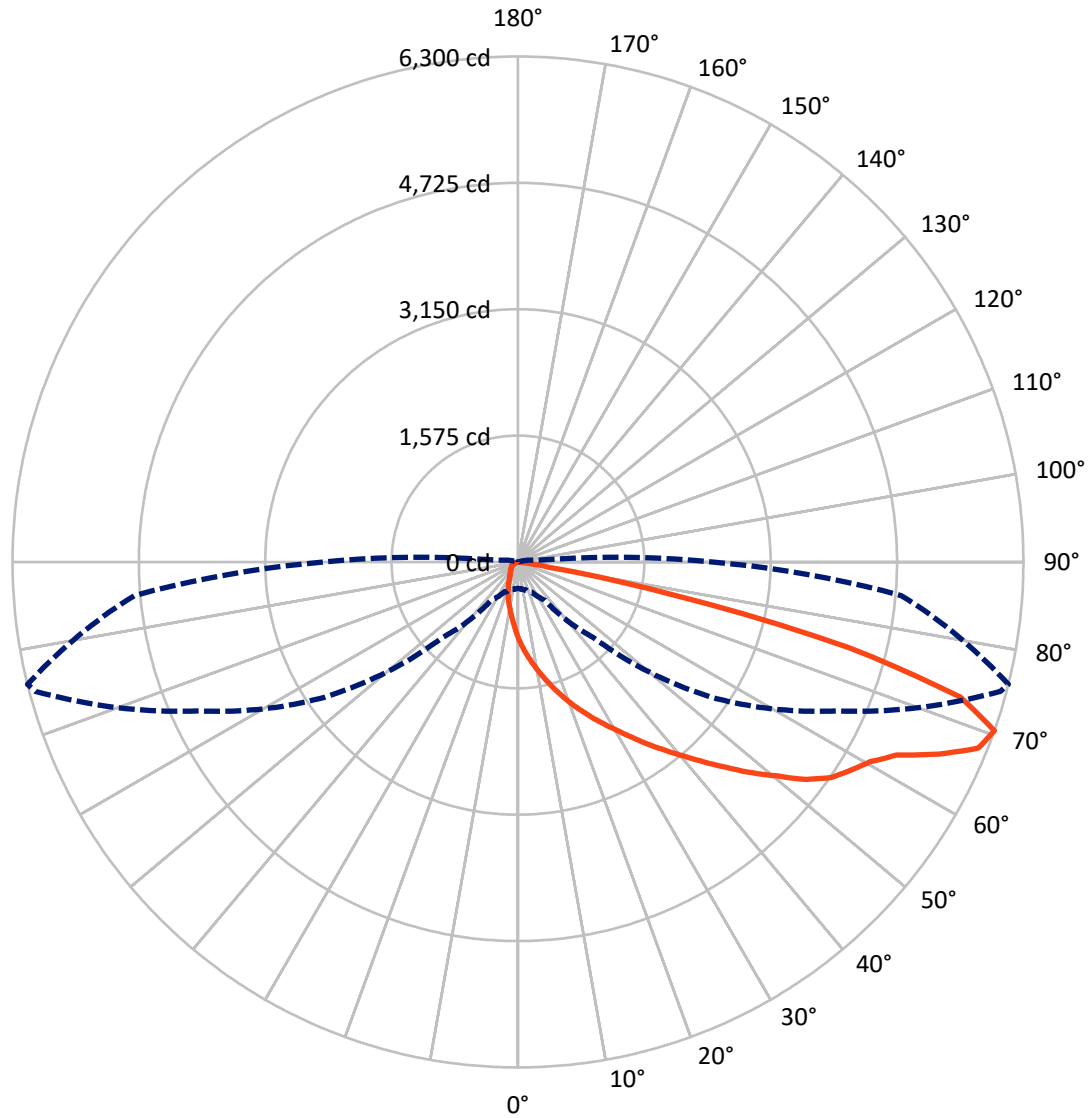
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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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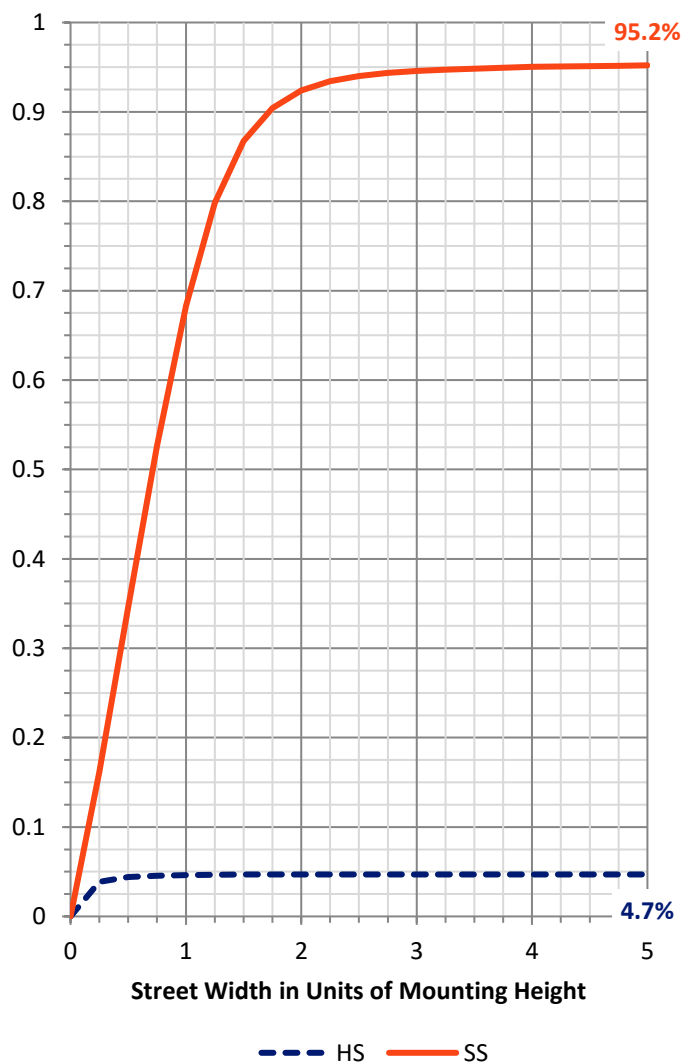
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	335.7	0.0	335.7
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	6781.3	0.0	6781.3
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	7117.0	0.0	7117.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.7	1.3
10°-20°	289.7	4.1
20°-30°	539.5	7.6
30°-40°	954.2	13.4
40°-50°	1459.1	20.5
50°-60°	1654.3	23.2
60°-70°	1418.2	19.9
70°-80°	686.9	9.7
80°-90°	25.5	0.4
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°	7117.0	100.0
0°-180°	7117.0	100.0

**Coefficient of Utilization**

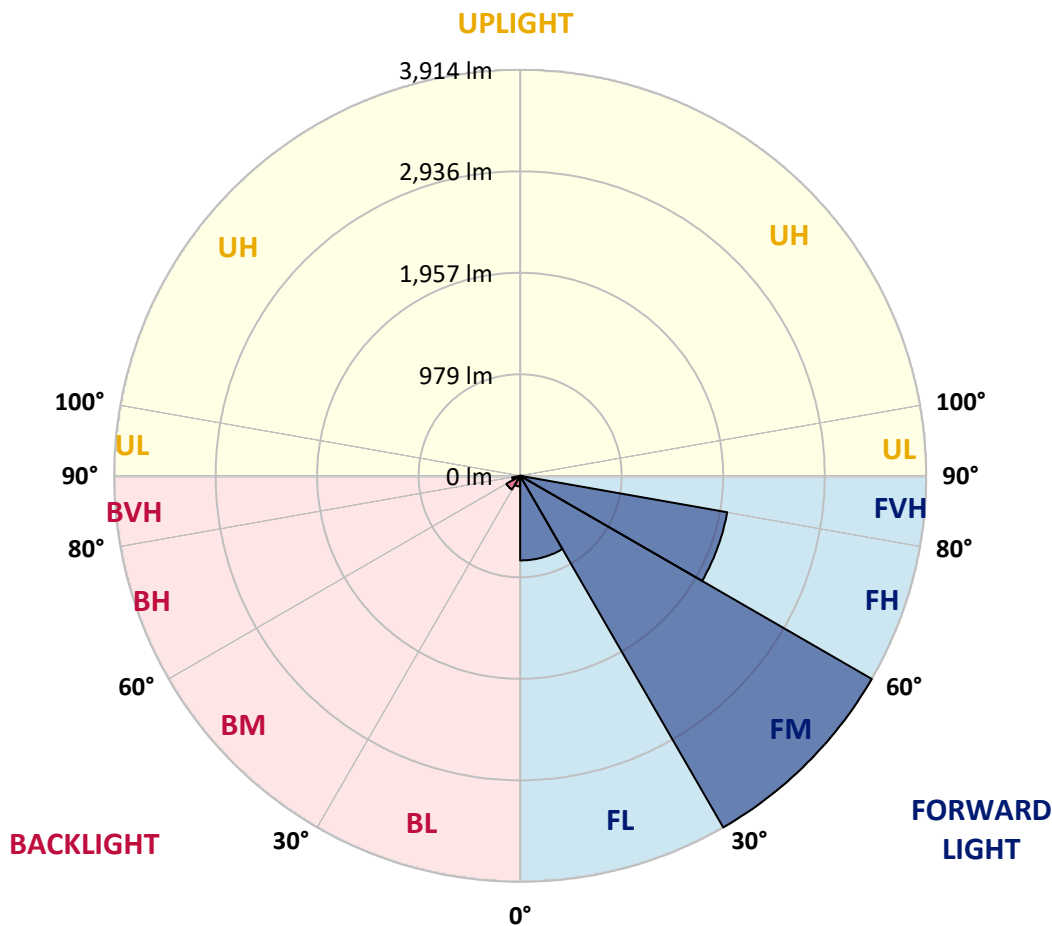


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	815.9	11.5			
FM (30°-60°)	3914.4	55.0			
FH (60°-80°)	2026.0	28.5			G2/5000
FVH (80°-90°)	25.0	0.4			G1/100
BL (0°-30°)	103.0	1.4	B0/110		
BM (30°-60°)	153.2	2.2	B0/220		
BH (60°-80°)	79.0	1.1	B0/110		G0/110
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G2**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7
2.5°	1302.2	1295.1	1288.0	1260.7	1235.8	1213.3	1170.7	1115.0	1065.2	1054.6	996.5
5°	1529.7	1521.4	1510.7	1483.5	1451.5	1413.6	1350.8	1265.5	1177.8	1158.8	1051.0
7.5°	1683.7	1676.6	1661.2	1648.2	1616.2	1579.5	1509.6	1410.0	1289.2	1265.5	1113.8
10°	1789.2	1784.5	1782.1	1771.4	1747.7	1718.1	1648.2	1543.9	1401.7	1374.5	1180.2
12.5°	1827.1	1827.1	1839.0	1856.7	1860.3	1850.8	1786.8	1682.6	1520.2	1491.8	1258.4
15°	1776.2	1782.1	1808.2	1865.0	1924.3	1963.4	1923.1	1825.9	1650.6	1619.8	1350.8
17.5°	1761.9	1767.9	1785.6	1835.4	1914.8	2019.1	2039.2	1964.6	1773.8	1747.7	1445.6
20°	1802.2	1808.2	1823.6	1866.2	1926.6	2032.1	2116.2	2098.5	1904.1	1876.9	1541.5
22.5°	1898.2	1901.8	1901.8	1934.9	1988.3	2066.5	2164.8	2225.2	2038.0	2008.4	1636.3
25°	2104.4	2097.3	2068.8	2052.2	2086.6	2150.6	2226.4	2336.6	2187.3	2147.0	1738.2
27.5°	2374.5	2398.2	2329.5	2250.1	2224.0	2260.8	2312.9	2435.0	2331.9	2289.2	1830.7
30°	2740.7	2731.2	2641.1	2527.4	2414.8	2401.8	2419.6	2519.1	2476.4	2436.1	1933.7
32.5°	3041.6	3059.4	2964.6	2826.0	2657.7	2578.3	2559.4	2619.8	2630.5	2604.4	2055.8
35°	3350.9	3369.8	3277.4	3123.4	2923.1	2790.4	2735.9	2744.2	2821.2	2788.1	2183.8
37.5°	3628.2	3644.7	3553.5	3395.9	3195.7	3033.3	2955.1	2891.1	3006.1	2976.5	2318.8
40°	3839.1	3841.4	3779.8	3638.8	3449.2	3281.0	3192.1	3066.5	3201.6	3181.4	2459.8
42.5°	3988.4	3993.1	3948.1	3827.2	3651.8	3495.4	3423.2	3273.9	3426.7	3408.9	2623.4
45°	4058.3	4066.6	4061.8	3950.4	3804.7	3669.6	3645.9	3494.3	3673.2	3656.6	2811.8
47.5°	3991.9	3991.9	4052.3	4036.9	3903.0	3813.0	3840.2	3724.1	3941.0	3925.6	3003.7
50°	3715.8	3719.4	3842.6	4019.2	3941.0	3920.8	4006.1	3949.3	4183.9	4193.3	3233.6
52.5°	2990.7	2984.8	3400.7	3739.5	3914.9	3969.4	4159.0	4179.1	4475.4	4503.8	3462.3
55°	2234.7	2231.2	2629.3	3244.2	3732.4	3944.5	4244.3	4384.1	4724.2	4742.0	3632.9
57.5°	1769.0	1759.6	1978.8	2615.1	3320.1	3833.1	4247.9	4423.2	4862.8	4893.6	3798.8
60°	1360.3	1352.0	1515.5	1945.6	2735.9	3536.9	4146.0	4425.6	4996.7	5051.2	4021.5
62.5°	972.8	982.3	1107.9	1395.8	2104.4	3118.6	4013.2	4458.8	5234.9	5296.5	4337.9
65°	656.4	651.7	756.0	950.3	1496.5	2555.8	3809.4	4528.7	5663.8	5771.6	4717.1
67.5°	456.2	459.7	507.1	618.5	950.3	1962.2	3470.6	4567.8	6107.0	6191.1	4982.5
70°	329.4	334.1	360.2	415.9	580.6	1330.6	2933.8	4388.9	6226.6	6300.1	4797.6
72.5°	216.8	226.3	265.4	295.0	370.9	833.0	2161.2	3781.0	5711.2	5765.7	4025.1
75°	117.3	119.7	170.6	220.4	264.2	519.0	1289.2	2549.9	4272.7	4255.0	2654.2
77.5°	91.2	94.8	105.5	157.6	177.7	285.6	509.5	1151.7	2023.8	1969.3	905.3
80°	55.7	58.1	73.5	93.6	124.4	165.9	149.3	312.8	411.2	385.1	132.7
82.5°	33.2	35.5	43.8	78.2	98.3	78.2	52.1	75.8	77.0	75.8	33.2
85°	5.9	5.9	30.8	54.5	52.1	22.5	30.8	24.9	22.5	23.7	7.1
87.5°	0.0	0.0	11.8	16.6	23.7	8.3	11.8	5.9	5.9	5.9	3.6
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°	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7
2.5°	961.0	920.7	837.7	765.4	693.2	639.8	599.6	558.1	543.9	526.1	516.6
5°	977.5	898.2	733.5	601.9	490.5	405.2	350.7	317.6	296.2	280.8	277.3
7.5°	1002.4	880.4	649.3	471.6	349.5	264.2	219.2	196.7	184.8	177.7	175.4
10°	1032.0	865.0	566.4	367.3	246.5	186.0	161.1	151.7	146.9	144.6	143.4
12.5°	1073.5	859.0	496.5	283.2	186.0	152.9	139.8	133.9	130.3	126.8	125.6
15°	1128.0	861.4	432.5	219.2	154.0	136.3	125.6	119.7	114.9	111.4	111.4
17.5°	1184.9	865.0	369.7	177.7	139.8	124.4	112.6	104.3	100.7	97.2	96.0
20°	1238.2	863.8	309.3	151.7	126.8	111.4	99.5	91.2	85.3	81.8	81.8
22.5°	1289.2	856.7	252.4	136.3	116.1	98.3	85.3	77.0	72.3	68.7	68.7
25°	1343.7	842.5	206.2	124.4	103.1	86.5	73.5	65.2	61.6	58.1	58.1
27.5°	1386.3	818.8	168.3	113.7	91.2	74.6	62.8	55.7	52.1	49.8	49.8
30°	1432.5	784.4	139.8	101.9	79.4	64.0	53.3	47.4	43.8	42.7	42.7
32.5°	1483.5	746.5	119.7	90.1	67.5	54.5	45.0	41.5	37.9	36.7	36.7
35°	1542.7	713.3	107.8	78.2	59.2	46.2	39.1	35.5	33.2	33.2	33.2
37.5°	1610.3	678.9	97.2	68.7	51.0	39.1	33.2	32.0	30.8	29.6	29.6
40°	1683.7	642.2	87.7	60.4	43.8	33.2	28.4	28.4	27.3	27.3	27.3
42.5°	1766.7	610.2	79.4	53.3	37.9	28.4	24.9	24.9	23.7	23.7	23.7
45°	1856.7	580.6	72.3	47.4	33.2	24.9	22.5	21.3	20.1	20.1	20.1
47.5°	1963.4	564.0	66.4	41.5	28.4	21.3	19.0	17.8	16.6	15.4	15.4
50°	2099.6	571.1	60.4	34.4	24.9	17.8	15.4	14.2	13.0	11.8	11.8
52.5°	2207.5	567.6	52.1	29.6	20.1	14.2	11.8	10.7	9.5	8.3	8.3
55°	2285.7	553.3	45.0	24.9	15.4	11.8	9.5	7.1	5.9	5.9	5.9
57.5°	2362.7	539.1	37.9	20.1	11.8	8.3	5.9	4.7	4.7	4.7	4.7
60°	2482.4	519.0	33.2	16.6	9.5	5.9	3.6	3.6	2.4	2.4	2.4
62.5°	2628.1	494.1	27.3	14.2	7.1	4.7	2.4	2.4	0.0	0.0	0.0
65°	2788.1	450.3	22.5	10.7	5.9	3.6	2.4	0.0	0.0	0.0	0.0
67.5°	2751.3	361.4	19.0	7.1	4.7	2.4	1.2	0.0	0.0	0.0	0.0
70°	2433.8	244.1	15.4	5.9	3.6	2.4	1.2	0.0	0.0	0.0	0.0
72.5°	1906.5	144.6	10.7	4.7	2.4	1.2	0.0	0.0	0.0	0.0	0.0
75°	1220.4	72.3	7.1	3.6	2.4	1.2	0.0	0.0	0.0	0.0	0.0
77.5°	408.8	35.5	4.7	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	58.1	11.8	2.4	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	13.0	4.7	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.7	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)