

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: P381317

Luminaire Tested: **PRV-PA1B-740-U-T4W-HSS**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P381317
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-15)
Test Lab: INNOVATIONS CENTER
Issue Date: 1/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-PA1B-740-U-T4W-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7053 lumens
Efficiency: N/A
Efficacy: 95.3 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

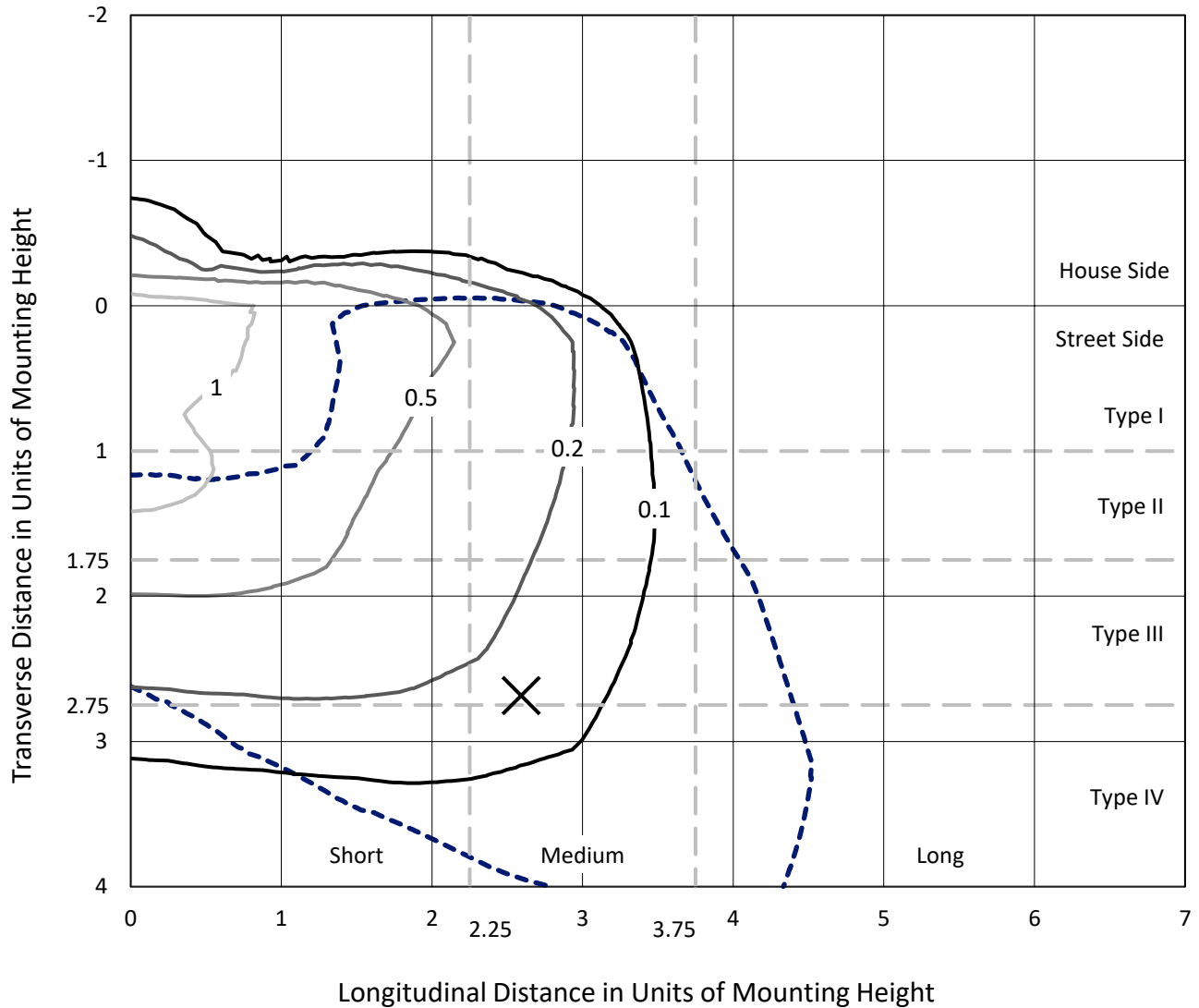
Input Watts (W): 74
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

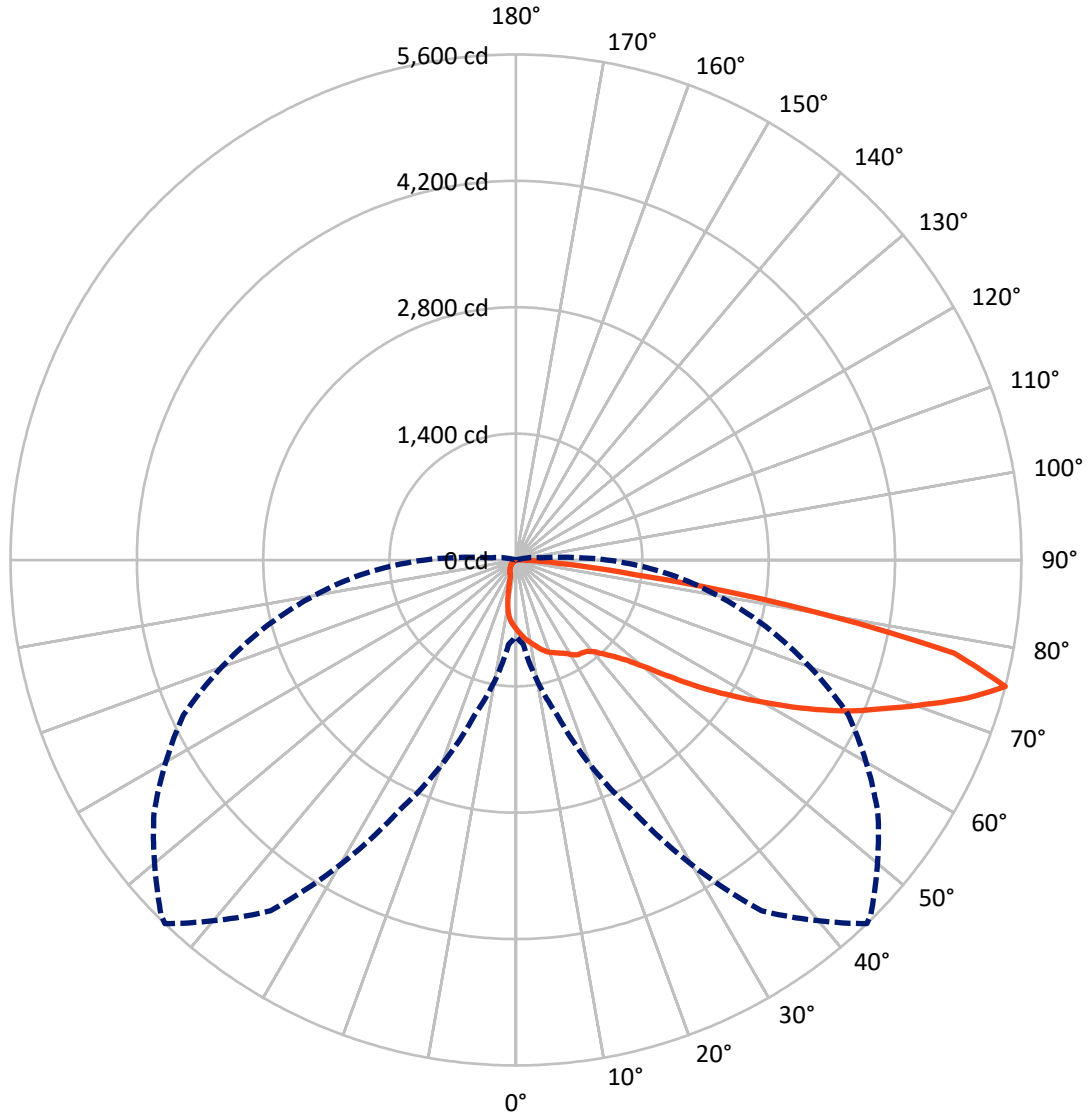
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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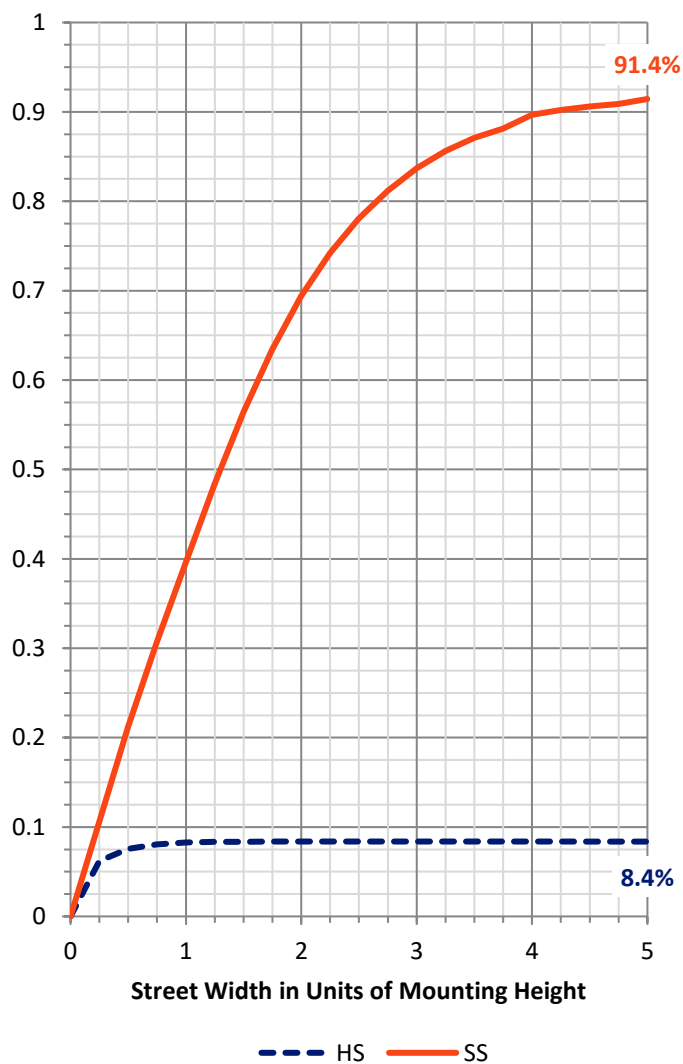
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	594.8	0.0	594.8
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	6458.2	0.0	6458.2
	% Fixture	91.6	0.0	91.6
Total	Lumens	7053.0	0.0	7053.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.4	1.0
10°-20°	202.9	2.9
20°-30°	334.8	4.7
30°-40°	485.9	6.9
40°-50°	789.9	11.2
50°-60°	1392.5	19.7
60°-70°	2001.3	28.4
70°-80°	1602.6	22.7
80°-90°	170.7	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°	7053.0	100.0
0°-180°	7053.0	100.0

Coefficient of Utilization



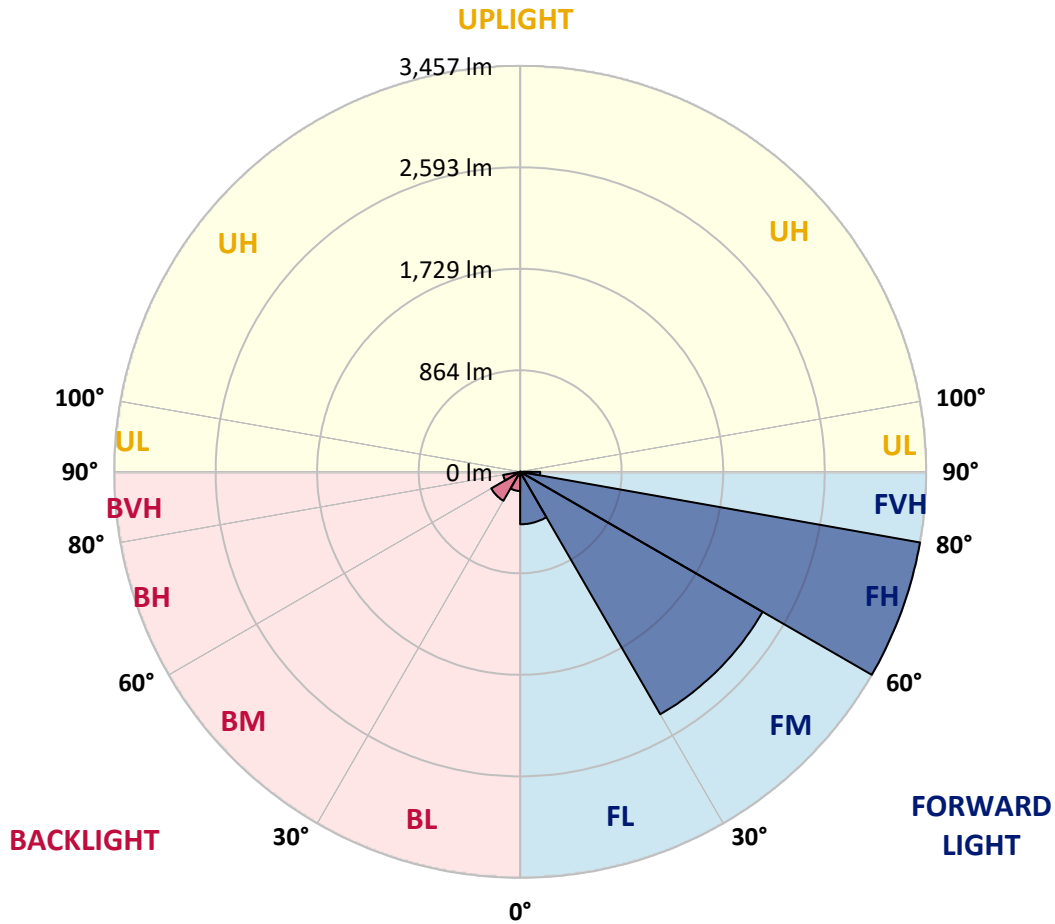
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	446.7	6.3			
FM (30°-60°)	2384.0	33.8			
FH (60°-80°)	3457.3	49.0			G2/5000
FVH (80°-90°)	170.3	2.4			G2/225
BL (0°-30°)	163.4	2.3	B1/500		
BM (30°-60°)	284.3	4.0	B1/1000		
BH (60°-80°)	146.6	2.1	B1/500		G1/500
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: B1-U0-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7
2.5°	836.7	835.4	831.4	824.9	818.4	811.9	810.6	800.2	788.5	779.4	771.6
5°	910.8	909.5	903.0	888.7	874.4	857.5	856.2	831.4	809.3	784.6	763.8
7.5°	987.6	985.0	973.3	951.2	926.4	900.4	897.8	861.4	828.8	796.3	766.4
10°	1047.4	1044.8	1027.9	1001.9	968.1	935.5	931.6	893.9	861.4	819.7	779.4
12.5°	1106.0	1100.8	1078.7	1050.0	1008.4	977.2	973.3	934.2	895.2	852.3	802.8
15°	1160.6	1154.1	1133.3	1096.9	1052.6	1022.7	1020.1	978.5	938.1	888.7	834.1
17.5°	1198.4	1195.8	1171.1	1130.7	1087.8	1063.1	1060.5	1017.5	977.2	925.1	866.6
20°	1217.9	1217.9	1194.5	1150.2	1111.2	1094.3	1090.4	1050.0	1011.0	961.6	900.4
22.5°	1221.8	1225.7	1207.5	1159.3	1130.7	1116.4	1113.8	1078.7	1040.9	995.4	938.1
25°	1229.6	1229.6	1220.5	1168.5	1147.6	1143.7	1142.4	1111.2	1077.4	1031.8	975.9
27.5°	1238.7	1238.7	1232.2	1181.5	1173.7	1172.4	1171.1	1156.7	1129.4	1076.1	1020.1
30°	1262.1	1263.4	1258.2	1207.5	1202.3	1216.6	1219.2	1211.4	1177.6	1111.2	1065.7
32.5°	1320.7	1309.0	1294.7	1225.7	1234.8	1253.0	1254.3	1238.7	1202.3	1148.9	1120.3
35°	1467.7	1398.8	1333.7	1241.3	1245.2	1263.4	1266.0	1264.7	1242.6	1197.1	1182.8
37.5°	1604.3	1506.8	1414.4	1277.8	1264.7	1284.3	1289.5	1311.6	1294.7	1263.4	1267.3
40°	1683.7	1646.0	1580.9	1377.9	1303.8	1333.7	1338.9	1372.7	1366.2	1353.2	1377.9
42.5°	1928.3	1930.9	1860.7	1527.6	1375.3	1423.5	1430.0	1457.3	1466.4	1472.9	1532.8
45°	2212.0	2221.1	2204.2	1796.9	1510.7	1526.3	1535.4	1571.8	1605.6	1647.3	1756.6
47.5°	2552.9	2545.1	2482.6	2126.1	1746.2	1659.0	1665.5	1735.8	1794.3	1885.4	2041.5
50°	2854.8	2874.3	2755.9	2433.2	2078.0	1868.5	1862.0	1930.9	2036.3	2163.9	2360.3
52.5°	3159.2	3130.6	2970.6	2737.7	2470.9	2153.4	2133.9	2171.7	2320.0	2470.9	2672.6
55°	3239.9	3242.5	3187.9	3070.8	2798.8	2499.6	2467.0	2464.4	2649.2	2752.0	3000.5
57.5°	3398.7	3405.2	3418.2	3441.6	3312.8	2845.7	2811.8	2775.4	2955.0	3014.8	3329.7
60°	3560.0	3567.8	3647.2	3773.4	3687.5	3219.1	3182.7	3096.8	3197.0	3277.7	3675.8
62.5°	3539.2	3593.8	3824.1	4075.3	4064.9	3629.0	3583.4	3376.5	3440.3	3510.6	3993.3
65°	3195.7	3254.2	3772.1	4158.6	4443.5	4033.6	3959.5	3665.4	3669.3	3753.9	4299.1
67.5°	2888.6	2952.4	3446.8	4123.4	4693.3	4396.7	4319.9	3955.6	3894.4	4034.9	4463.0
70°	2711.6	2775.4	3187.9	4014.1	4763.6	4798.7	4732.4	4287.4	4162.5	4291.3	4279.6
72.5°	2122.2	2222.4	2857.4	3805.9	4839.1	5229.4	5177.4	4707.6	4390.2	4023.2	3258.1
75°	845.8	938.1	1783.9	3063.0	4744.1	5600.3	5559.9	4896.3	4063.6	2873.0	1668.1
77.5°	255.0	273.2	495.7	1514.6	3478.0	4965.3	4952.3	4116.9	2875.6	1333.7	455.4
80°	84.6	93.7	152.2	417.7	1587.4	3102.0	3160.6	2623.2	1306.4	305.8	92.4
82.5°	35.1	39.0	76.8	167.9	562.1	1336.3	1316.8	1175.0	455.4	190.0	33.8
85°	9.1	11.7	35.1	96.3	205.6	460.6	484.0	394.3	257.6	157.4	10.4
87.5°	0.0	0.0	16.9	39.0	92.4	139.2	145.7	119.7	145.7	118.4	5.2
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°	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7
2.5°	765.1	758.6	746.9	739.1	728.7	726.1	720.9	714.3	713.0	706.5	707.8
5°	752.1	741.7	720.9	706.5	689.6	684.4	675.3	668.8	663.6	654.5	655.8
7.5°	749.5	733.9	705.2	677.9	650.6	631.1	603.7	581.6	563.4	543.9	547.8
10°	758.6	739.1	698.7	661.0	611.6	549.1	477.5	430.7	407.3	383.8	386.4
12.5°	776.8	753.4	701.3	644.1	543.9	437.2	338.3	274.5	257.6	247.2	248.5
15°	804.1	775.5	709.1	611.6	452.8	316.2	225.1	197.8	204.3	208.2	208.2
17.5°	832.8	800.2	715.6	553.0	350.0	221.2	183.5	180.9	190.0	199.1	199.1
20°	867.9	826.2	716.9	478.8	252.4	179.6	173.1	173.1	179.6	190.0	190.0
22.5°	901.7	854.9	705.2	394.3	192.6	166.6	166.6	166.6	170.5	180.9	182.2
25°	942.0	890.0	680.5	304.5	165.2	158.7	158.7	160.0	162.6	171.8	173.1
27.5°	985.0	926.4	638.9	222.5	150.9	149.6	150.9	152.2	153.5	162.6	165.2
30°	1034.4	966.8	585.5	166.6	137.9	137.9	141.8	144.4	144.4	152.2	154.8
32.5°	1091.7	1020.1	521.8	137.9	124.9	123.6	130.1	134.0	134.0	140.5	143.1
35°	1163.2	1074.8	445.0	122.3	114.5	111.9	114.5	121.0	123.6	128.8	130.1
37.5°	1258.2	1139.8	363.0	113.2	106.7	101.5	101.5	102.8	108.0	113.2	114.5
40°	1379.2	1211.4	282.4	106.7	98.9	93.7	89.8	88.5	87.2	91.1	93.7
42.5°	1531.5	1292.1	210.8	100.2	92.4	84.6	79.4	74.2	67.7	66.4	67.7
45°	1726.7	1391.0	156.1	95.0	88.5	76.8	67.7	58.6	46.8	42.9	44.2
47.5°	1957.0	1493.7	122.3	89.8	85.9	67.7	56.0	40.3	28.6	26.0	27.3
50°	2201.6	1592.6	104.1	83.3	80.7	58.6	40.3	24.7	16.9	16.9	18.2
52.5°	2409.8	1648.6	95.0	78.1	72.9	48.1	26.0	14.3	10.4	10.4	11.7
55°	2611.5	1678.5	88.5	72.9	62.5	33.8	14.3	9.1	6.5	6.5	6.5
57.5°	2819.6	1691.5	80.7	66.4	49.4	20.8	7.8	5.2	3.9	3.9	3.9
60°	3004.4	1666.8	69.0	54.6	32.5	10.4	3.9	3.9	2.6	1.3	1.3
62.5°	3159.2	1620.0	48.1	39.0	19.5	5.2	2.6	1.3	0.0	0.0	0.0
65°	3254.2	1544.5	31.2	26.0	11.7	3.9	1.3	0.0	0.0	0.0	0.0
67.5°	3226.9	1402.7	19.5	16.9	5.2	2.6	1.3	0.0	0.0	0.0	0.0
70°	2912.0	1150.2	14.3	10.4	3.9	1.3	0.0	0.0	0.0	0.0	0.0
72.5°	2098.8	778.1	10.4	6.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	1009.7	277.1	6.5	5.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	247.2	61.2	3.9	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	54.6	11.7	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	18.2	5.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.9	1.3	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)