

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: P381245

Luminaire Tested: **PRV-PA1B-730-U-T3-HSS**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P381245
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)
Test Lab: INNOVATIONS CENTER
Issue Date: 1/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-PA1B-730-U-T3-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6627 lumens
Efficiency: N/A
Efficacy: 89.6 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

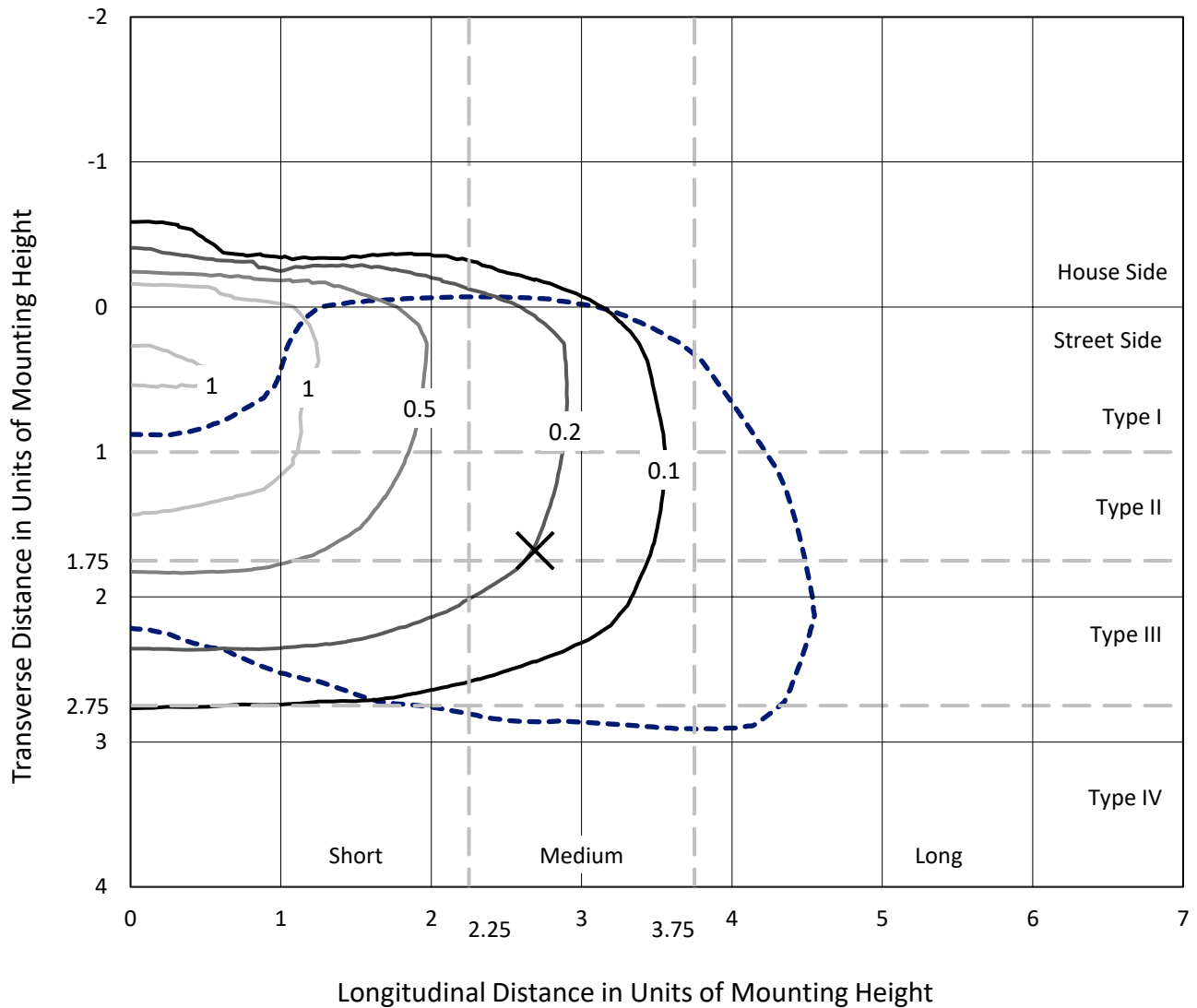
Input Watts (W): 74
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

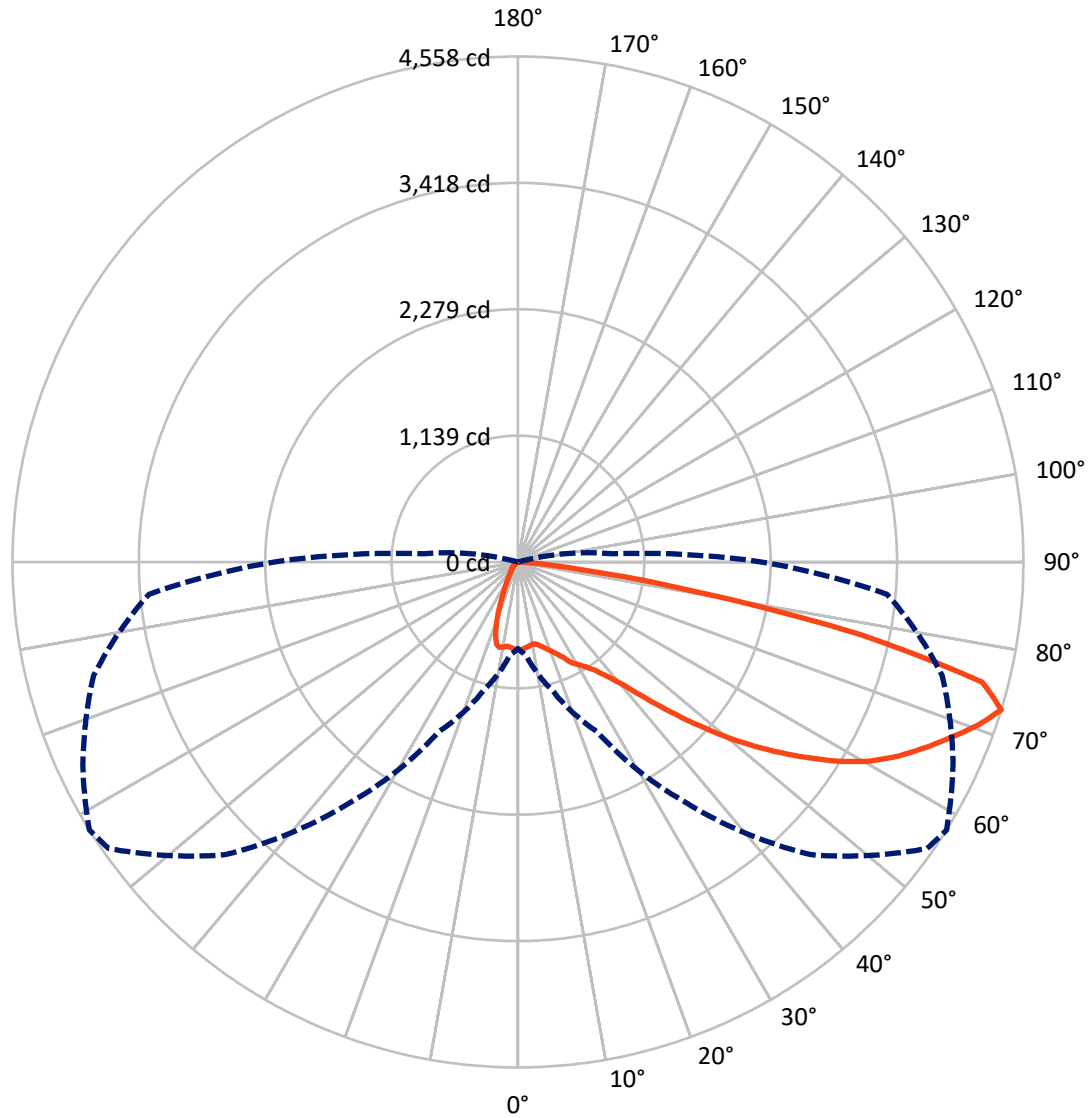
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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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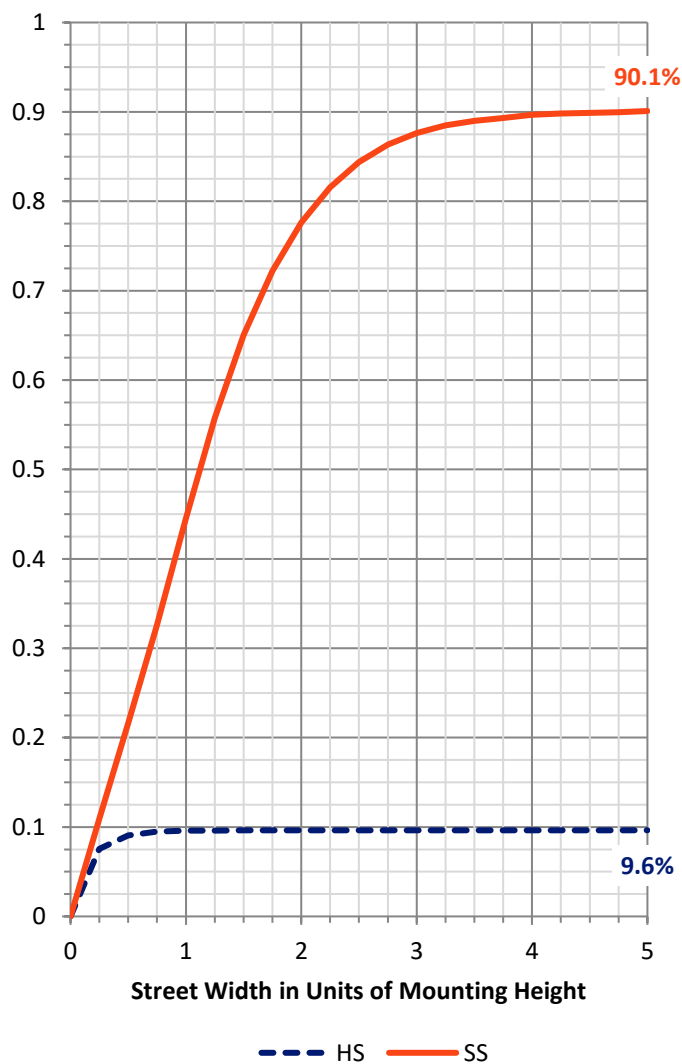
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	644.4	0.0	644.4
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	5982.6	0.0	5982.6
	% Fixture	90.3	0.0	90.3
Total	Lumens	6627.0	0.0	6627.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.0	1.1
10°-20°	190.1	2.9
20°-30°	298.6	4.5
30°-40°	515.0	7.8
40°-50°	979.8	14.8
50°-60°	1551.6	23.4
60°-70°	1810.6	27.3
70°-80°	1134.0	17.1
80°-90°	74.4	1.1
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°	6627.0	100.0
0°-180°	6627.0	100.0

Coefficient of Utilization



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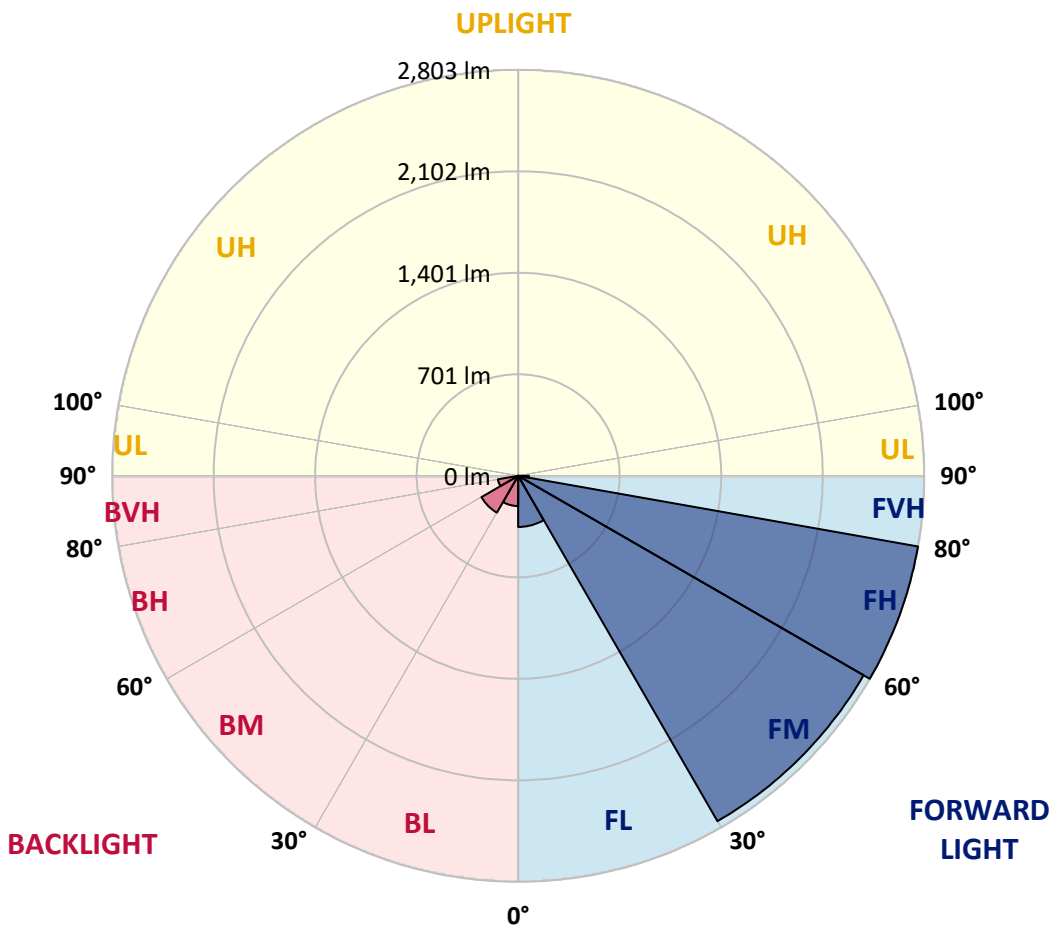
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	353.0	5.3			
FM (30°-60°)	2753.1	41.5			
FH (60°-80°)	2802.7	42.3			G2/5000
FVH (80°-90°)	73.7	1.1			G1/100
BL (0°-30°)	208.7	3.1	B1/500		
BM (30°-60°)	293.2	4.4	B1/1000		
BH (60°-80°)	141.8	2.1	B1/500		G1/500
BVH (80°-90°)	0.7	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°	45°	55°	58°	65°	75°	85°
0°	795.2	795.2	795.2	795.2	795.2	795.2	795.2	795.2	795.2	795.2	795.2
2.5°	791.6	788.1	786.9	785.7	786.9	788.1	784.5	788.1	785.7	786.9	789.3
5°	763.2	759.6	758.5	759.6	763.2	769.1	771.5	775.1	775.1	778.6	779.8
7.5°	731.2	728.8	727.6	730.0	737.1	750.2	757.3	762.0	766.8	773.9	781.0
10°	713.4	712.2	711.1	714.6	721.7	733.6	743.1	750.2	767.9	788.1	801.1
12.5°	701.6	701.6	703.9	711.1	720.5	730.0	752.5	762.0	789.3	820.1	837.9
15°	692.1	692.1	695.7	708.7	721.7	744.2	777.4	788.1	820.1	858.0	881.7
17.5°	685.0	687.4	689.7	702.8	727.6	765.6	804.7	820.1	859.2	900.7	926.7
20°	686.2	688.5	689.7	702.8	738.3	790.5	840.2	858.0	903.0	946.9	973.0
22.5°	693.3	696.8	698.0	715.8	757.3	816.5	880.5	900.7	949.3	995.5	1015.6
25°	722.9	725.3	718.2	733.6	784.5	856.8	932.7	954.0	1002.6	1045.3	1061.8
27.5°	823.6	826.0	786.9	769.1	805.9	890.0	996.7	1026.3	1086.7	1115.2	1117.5
30°	1041.7	1044.1	967.0	882.9	856.8	918.4	1032.2	1073.7	1151.9	1183.9	1169.7
32.5°	1322.6	1320.2	1214.7	1090.3	977.7	968.2	1083.2	1127.0	1212.4	1243.2	1232.5
35°	1604.6	1608.2	1518.1	1330.9	1169.7	1061.8	1148.4	1199.3	1302.4	1346.3	1327.3
37.5°	1797.8	1821.5	1782.4	1579.7	1405.5	1234.9	1253.8	1308.3	1437.5	1496.8	1456.5
40°	2070.4	2064.4	1969.6	1820.3	1666.2	1490.9	1424.5	1450.6	1598.7	1678.1	1615.3
42.5°	2436.6	2424.7	2263.5	2117.8	1945.9	1802.5	1667.4	1662.7	1783.6	1876.0	1784.8
45°	2768.4	2750.6	2640.4	2499.4	2310.9	2146.2	1963.7	1922.2	2006.4	2084.6	1977.9
47.5°	3032.7	3003.0	2924.8	2850.2	2803.9	2548.0	2274.2	2211.4	2254.1	2312.1	2161.6
50°	3345.5	3263.8	3150.0	3105.0	3200.9	3003.0	2572.8	2512.4	2510.0	2543.2	2351.2
52.5°	3487.7	3339.6	3275.6	3313.5	3483.0	3426.1	2895.2	2808.7	2774.3	2777.9	2527.8
55°	3315.9	3299.3	3333.7	3452.2	3673.8	3640.6	3204.5	3097.8	3046.9	2982.9	2697.3
57.5°	3120.4	3171.3	3307.6	3534.0	3915.6	3864.6	3509.1	3388.2	3294.6	3147.6	2885.7
60°	2940.2	2992.4	3217.5	3552.9	4048.3	4080.3	3762.7	3647.7	3509.1	3315.9	3093.1
62.5°	2666.5	2706.8	3023.2	3525.7	3990.2	4205.9	3939.3	3852.7	3723.6	3475.9	3331.3
65°	2358.3	2384.4	2697.3	3307.6	3876.4	4191.7	4085.0	4036.4	3910.8	3643.0	3567.1
67.5°	2020.6	2051.4	2312.1	2915.3	3653.7	4125.3	4222.5	4217.8	4074.4	3827.9	3737.8
70°	1631.9	1634.2	1849.9	2417.6	3264.9	3992.6	4393.2	4403.8	4230.8	3966.5	3744.9
72.5°	781.0	845.0	1199.3	1687.6	2653.4	3731.9	4504.6	4557.9	4329.2	3961.8	3340.8
75°	178.9	184.9	349.6	802.3	1556.0	2864.4	4226.1	4325.6	4089.8	3426.1	2353.6
77.5°	65.2	68.7	98.4	234.6	598.5	1480.2	3024.4	3170.1	3023.2	2214.9	1112.8
80°	43.8	42.7	51.0	104.3	274.9	419.5	1546.6	1633.1	1490.9	756.1	266.6
82.5°	22.5	23.7	35.6	58.1	184.9	145.8	516.7	561.7	462.2	151.7	49.8
85°	10.7	10.7	20.1	36.7	78.2	51.0	115.0	138.7	124.4	66.4	16.6
87.5°	10.7	10.7	19.0	23.7	40.3	21.3	28.4	35.6	33.2	35.6	5.9
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°	795.2	795.2	795.2	795.2	795.2	795.2	795.2	795.2	795.2	795.2	795.2
2.5°	789.3	788.1	786.9	789.3	788.1	790.5	790.5	792.8	792.8	790.5	789.3
5°	778.6	776.2	773.9	773.9	772.7	775.1	782.2	788.1	789.3	785.7	784.5
7.5°	779.8	779.8	777.4	772.7	764.4	764.4	764.4	771.5	775.1	772.7	771.5
10°	801.1	802.3	796.4	785.7	771.5	758.5	733.6	696.8	662.5	653.0	649.4
12.5°	837.9	839.0	827.2	808.2	778.6	701.6	606.8	519.1	451.5	432.6	429.0
15°	881.7	882.9	861.6	830.8	740.7	561.7	420.7	321.2	261.9	247.7	246.5
17.5°	926.7	924.4	892.4	833.1	628.1	398.2	256.0	205.0	189.6	186.1	187.2
20°	970.6	963.5	919.6	789.3	483.5	260.7	187.2	175.4	171.8	169.5	169.5
22.5°	1010.9	996.7	942.2	702.8	338.9	187.2	167.1	164.7	160.0	156.4	155.2
25°	1051.2	1031.0	956.4	590.2	227.5	163.5	157.6	152.9	147.0	142.2	141.0
27.5°	1099.8	1071.3	949.3	448.0	170.7	151.7	147.0	139.8	131.5	124.4	122.1
30°	1146.0	1114.0	909.0	309.3	145.8	139.8	132.7	122.1	111.4	103.1	100.7
32.5°	1204.1	1167.3	836.7	202.7	126.8	122.1	115.0	101.9	87.7	78.2	75.8
35°	1287.0	1245.5	744.2	142.2	111.4	103.1	93.6	79.4	64.0	56.9	55.7
37.5°	1403.2	1347.5	628.1	115.0	98.4	86.5	72.3	58.1	47.4	41.5	40.3
40°	1545.4	1460.0	498.9	101.9	87.7	72.3	54.5	41.5	34.4	29.6	29.6
42.5°	1699.4	1565.5	367.4	93.6	77.0	59.3	40.3	29.6	24.9	22.5	21.3
45°	1858.2	1659.1	247.7	86.5	67.6	45.0	28.4	20.1	16.6	16.6	15.4
47.5°	2023.0	1721.9	160.0	78.2	56.9	33.2	19.0	14.2	11.9	11.9	11.9
50°	2186.5	1755.1	113.8	71.1	46.2	22.5	14.2	10.7	9.5	9.5	9.5
52.5°	2305.0	1733.8	91.3	61.6	35.6	16.6	10.7	8.3	7.1	7.1	7.1
55°	2408.1	1697.1	79.4	53.3	26.1	11.9	8.3	7.1	5.9	5.9	5.9
57.5°	2513.6	1649.7	71.1	45.0	19.0	8.3	5.9	4.7	4.7	4.7	4.7
60°	2609.6	1569.1	61.6	35.6	13.0	5.9	4.7	3.6	3.6	3.6	3.6
62.5°	2703.2	1500.3	53.3	27.3	9.5	4.7	2.4	2.4	1.2	1.2	1.2
65°	2756.5	1407.9	42.7	17.8	5.9	3.6	1.2	1.2	0.0	0.0	0.0
67.5°	2739.9	1297.7	29.6	10.7	3.6	2.4	1.2	0.0	0.0	0.0	0.0
70°	2625.0	1149.5	17.8	5.9	3.6	2.4	1.2	0.0	0.0	0.0	0.0
72.5°	2198.4	850.9	10.7	4.7	2.4	1.2	0.0	0.0	0.0	0.0	0.0
75°	1468.3	391.1	5.9	3.6	1.2	1.2	0.0	0.0	0.0	0.0	0.0
77.5°	671.9	117.3	3.6	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	135.1	30.8	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	28.4	5.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.9	2.4	0.0	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)