

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: P381253

Luminaire Tested: **PRV-PA1B-740-U-T3-HSS**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P381253
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-740-U-T3-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 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: 7277 lumens
Efficiency: N/A
Efficacy: 98.3 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

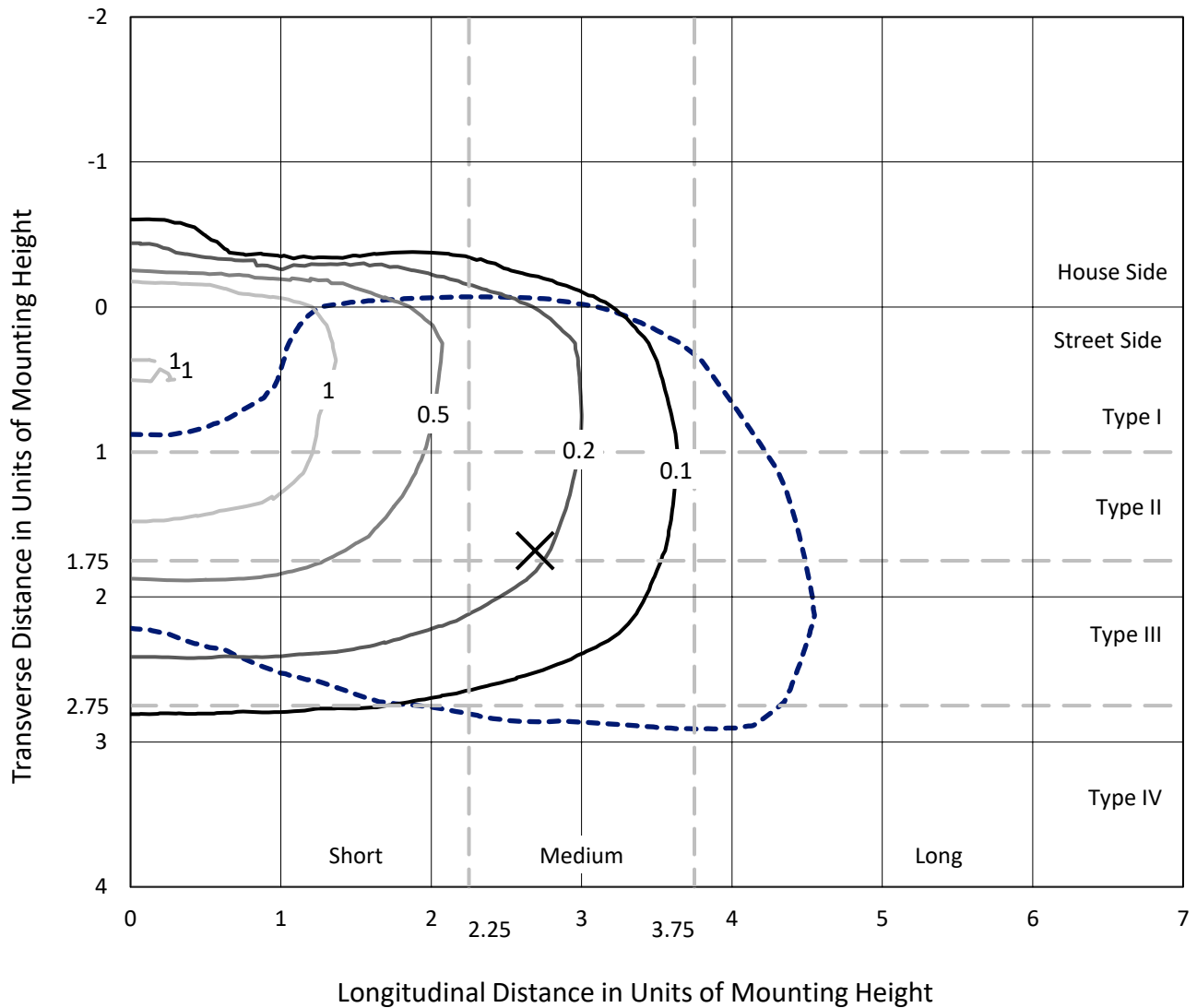
Input Watts (W): 74
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

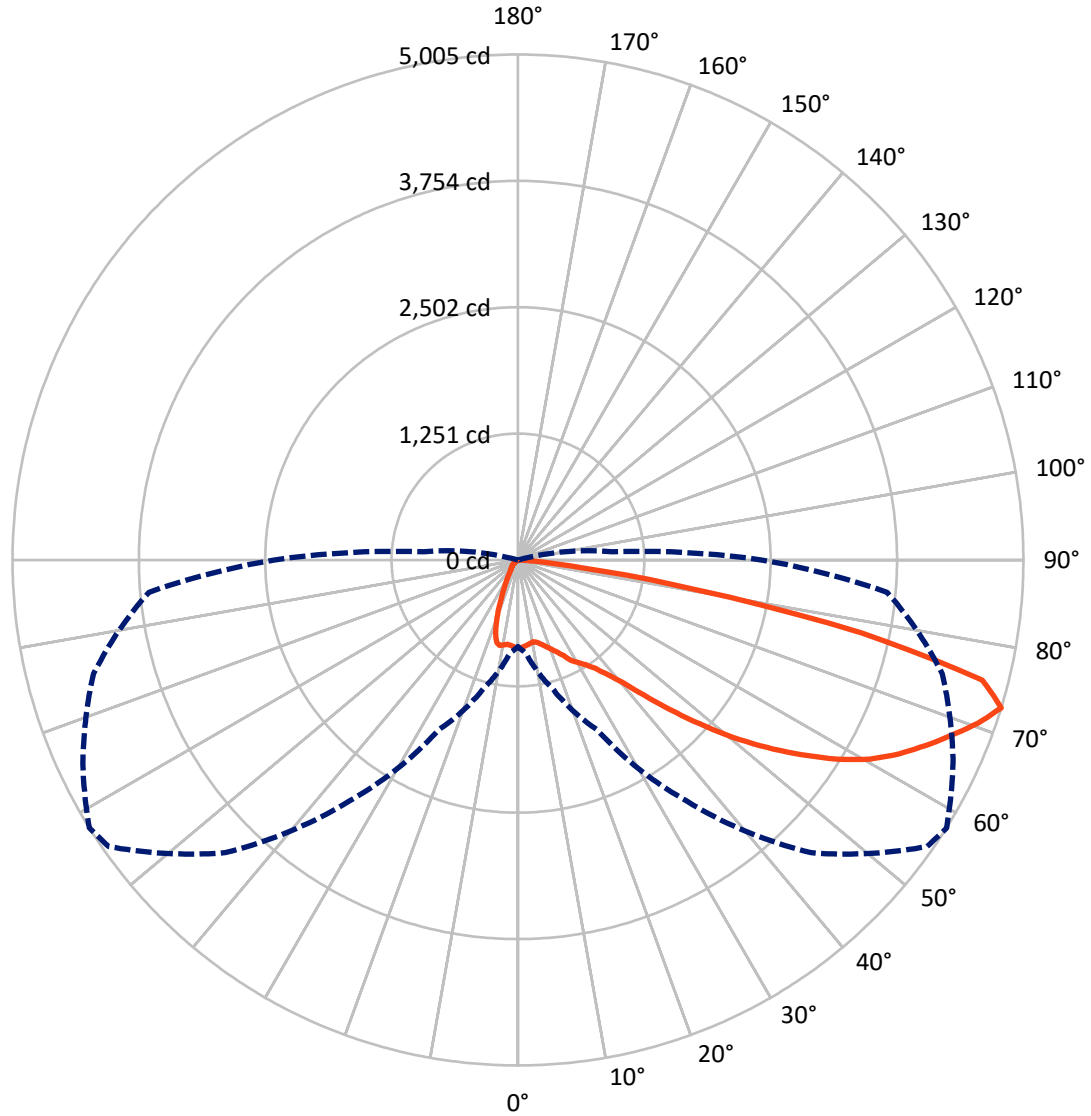
✕ Max cd
 - - - 1/2 Max cd



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 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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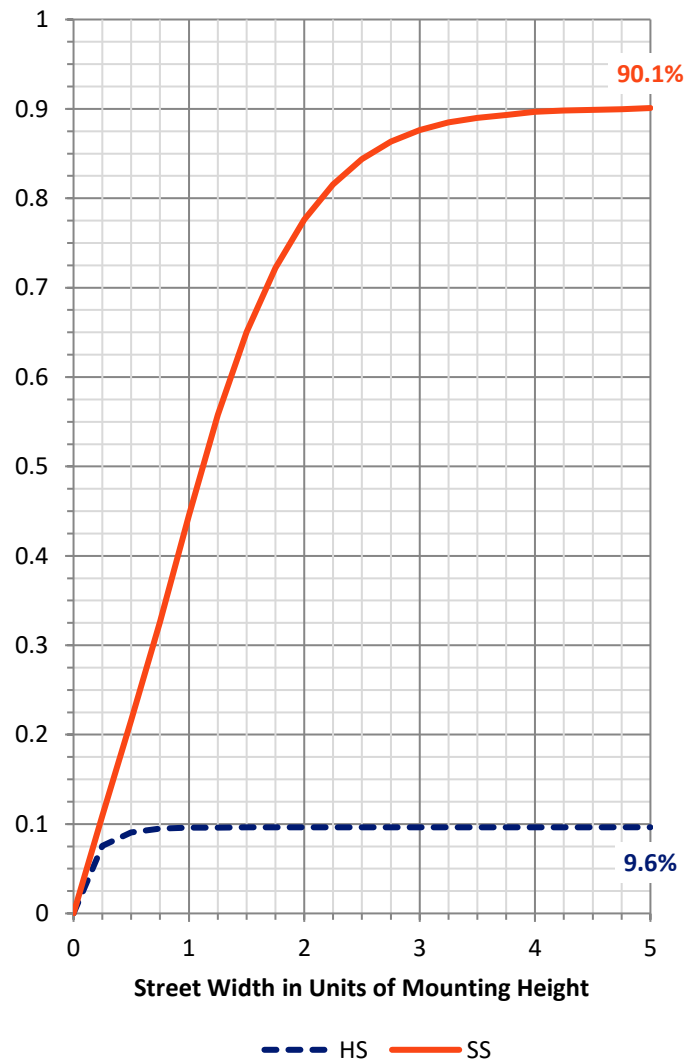
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	707.6	0.0	707.6
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	6569.4	0.0	6569.4
	% Fixture	90.3	0.0	90.3
Total	Lumens	7277.0	0.0	7277.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.1	1.1
10°-20°	208.7	2.9
20°-30°	327.9	4.5
30°-40°	565.5	7.8
40°-50°	1075.9	14.8
50°-60°	1703.8	23.4
60°-70°	1988.2	27.3
70°-80°	1245.2	17.1
80°-90°	81.7	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°	7277.0	100.0
0°-180°	7277.0	100.0



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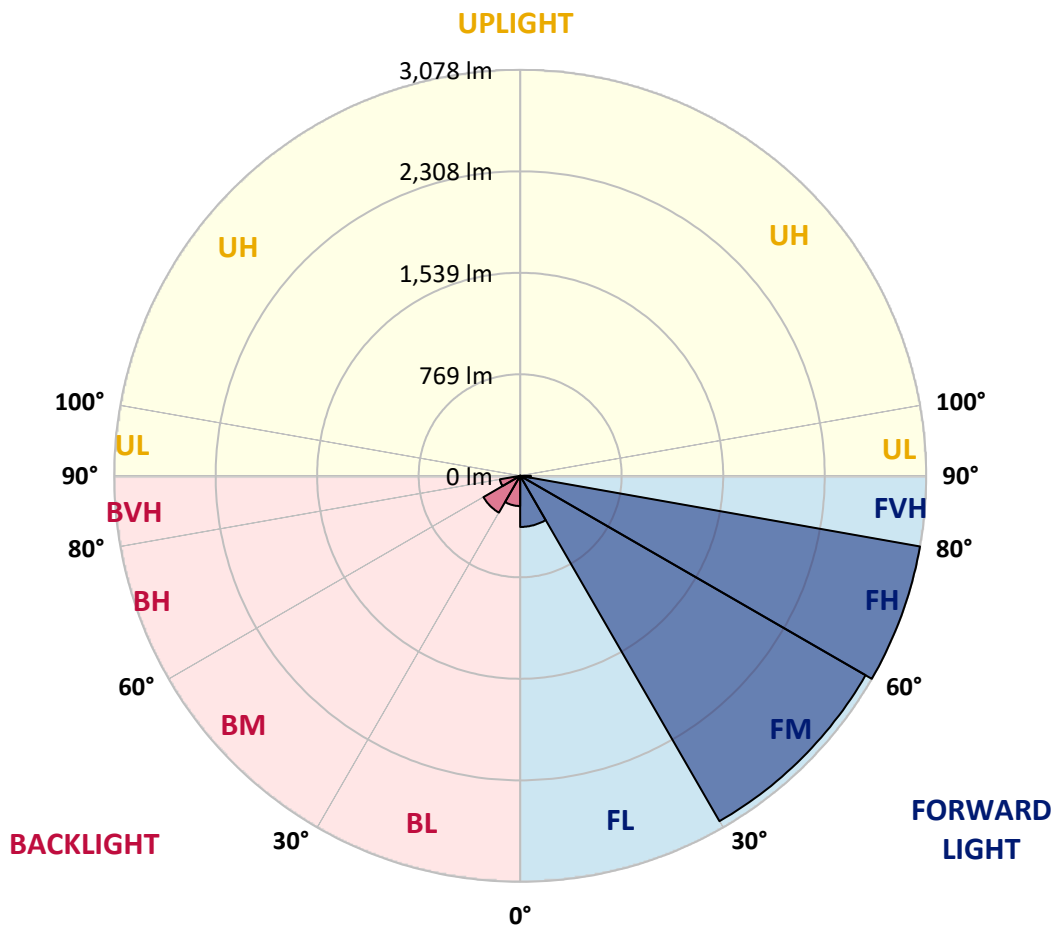
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	387.6	5.3			
FM (30°-60°)	3023.2	41.5			
FH (60°-80°)	3077.7	42.3			G2/5000
FVH (80°-90°)	80.9	1.1			G1/100
BL (0°-30°)	229.2	3.1	B1/500		
BM (30°-60°)	322.0	4.4	B1/1000		
BH (60°-80°)	155.7	2.1	B1/500		G1/500
BVH (80°-90°)	0.8	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°	873.2	873.2	873.2	873.2	873.2	873.2	873.2	873.2	873.2	873.2	873.2
2.5°	869.3	865.4	864.1	862.8	864.1	865.4	861.5	865.4	862.8	864.1	866.7
5°	838.1	834.2	832.9	834.2	838.1	844.6	847.2	851.1	851.1	855.0	856.3
7.5°	802.9	800.3	799.0	801.6	809.4	823.7	831.6	836.8	842.0	849.8	857.6
10°	783.4	782.1	780.8	784.7	792.5	805.5	815.9	823.7	843.3	865.4	879.7
12.5°	770.4	770.4	773.0	780.8	791.2	801.6	826.3	836.8	866.7	900.5	920.0
15°	760.0	760.0	763.9	778.2	792.5	817.2	853.7	865.4	900.5	942.2	968.2
17.5°	752.2	754.8	757.4	771.7	799.0	840.7	883.6	900.5	943.5	989.0	1017.6
20°	753.5	756.1	757.4	771.7	810.7	868.0	922.6	942.2	991.6	1039.8	1068.4
22.5°	761.3	765.2	766.5	786.0	831.6	896.6	966.9	989.0	1042.4	1093.1	1115.2
25°	793.8	796.4	788.6	805.5	861.5	940.9	1024.2	1047.6	1100.9	1147.8	1166.0
27.5°	904.4	907.0	864.1	844.6	884.9	977.3	1094.4	1127.0	1193.3	1224.6	1227.2
30°	1143.9	1146.5	1061.9	969.5	940.9	1008.5	1133.5	1179.0	1264.9	1300.0	1284.4
32.5°	1452.3	1449.7	1333.9	1197.2	1073.6	1063.2	1189.4	1237.6	1331.3	1365.1	1353.4
35°	1762.0	1765.9	1667.0	1461.4	1284.4	1166.0	1261.0	1317.0	1430.2	1478.3	1457.5
37.5°	1974.1	2000.2	1957.2	1734.7	1543.4	1356.0	1376.8	1436.7	1578.5	1643.6	1599.3
40°	2273.4	2266.9	2162.8	1998.9	1829.7	1637.1	1564.2	1592.8	1755.5	1842.7	1773.7
42.5°	2675.5	2662.5	2485.5	2325.5	2136.8	1979.3	1831.0	1825.8	1958.5	2060.0	1959.8
45°	3039.9	3020.4	2899.4	2744.5	2537.6	2356.7	2156.3	2110.8	2203.2	2289.0	2171.9
47.5°	3330.1	3297.6	3211.7	3129.7	3079.0	2797.9	2497.3	2428.3	2475.1	2538.9	2373.6
50°	3673.7	3583.9	3458.9	3409.5	3514.9	3297.6	2825.2	2758.8	2756.2	2792.7	2581.8
52.5°	3829.8	3667.2	3596.9	3638.5	3824.6	3762.2	3179.2	3084.2	3046.4	3050.3	2775.7
55°	3641.1	3622.9	3660.7	3790.8	4034.1	3997.7	3518.8	3401.7	3345.7	3275.5	2961.8
57.5°	3426.4	3482.4	3632.0	3880.6	4299.6	4243.7	3853.3	3720.5	3617.7	3456.3	3168.8
60°	3228.6	3285.9	3533.1	3901.4	4445.4	4480.5	4131.7	4005.5	3853.3	3641.1	3396.5
62.5°	2928.0	2972.2	3319.7	3871.5	4381.6	4618.4	4325.6	4230.6	4088.8	3816.8	3658.1
65°	2589.7	2618.3	2961.8	3632.0	4256.7	4602.8	4485.7	4432.3	4294.4	4000.3	3917.0
67.5°	2218.8	2252.6	2538.9	3201.3	4012.0	4529.9	4636.7	4631.5	4474.0	4203.3	4104.4
70°	1791.9	1794.5	2031.4	2654.7	3585.2	4384.2	4824.0	4835.8	4645.8	4355.6	4112.2
72.5°	857.6	927.9	1317.0	1853.1	2913.7	4097.9	4946.4	5004.9	4753.8	4350.4	3668.5
75°	196.5	203.0	383.9	881.0	1708.7	3145.3	4640.6	4749.9	4490.9	3762.2	2584.5
77.5°	71.6	75.5	108.0	257.7	657.2	1625.4	3321.0	3481.1	3319.7	2432.2	1222.0
80°	48.1	46.8	56.0	114.5	301.9	460.7	1698.2	1793.2	1637.1	830.3	292.8
82.5°	24.7	26.0	39.0	63.8	203.0	160.1	567.4	616.8	507.5	166.6	54.7
85°	11.7	11.7	22.1	40.3	85.9	56.0	126.2	152.3	136.6	72.9	18.2
87.5°	11.7	11.7	20.8	26.0	44.2	23.4	31.2	39.0	36.4	39.0	6.5
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°	873.2	873.2	873.2	873.2	873.2	873.2	873.2	873.2	873.2	873.2	873.2
2.5°	866.7	865.4	864.1	866.7	865.4	868.0	868.0	870.6	870.6	868.0	866.7
5°	855.0	852.4	849.8	849.8	848.5	851.1	858.9	865.4	866.7	862.8	861.5
7.5°	856.3	856.3	853.7	848.5	839.4	839.4	839.4	847.2	851.1	848.5	847.2
10°	879.7	881.0	874.5	862.8	847.2	832.9	805.5	765.2	727.4	717.0	713.1
12.5°	920.0	921.3	908.3	887.5	855.0	770.4	666.3	570.0	495.8	475.0	471.1
15°	968.2	969.5	946.1	912.2	813.3	616.8	462.0	352.7	287.6	272.0	270.7
17.5°	1017.6	1015.0	979.9	914.8	689.7	437.2	281.1	225.1	208.2	204.3	205.6
20°	1065.8	1058.0	1009.8	866.7	530.9	286.3	205.6	192.6	188.7	186.1	186.1
22.5°	1110.0	1094.4	1034.6	771.7	372.2	205.6	183.5	180.9	175.7	171.8	170.5
25°	1154.3	1132.2	1050.2	648.1	249.9	179.6	173.1	167.9	161.4	156.2	154.9
27.5°	1207.6	1176.4	1042.4	491.9	187.4	166.6	161.4	153.6	144.4	136.6	134.0
30°	1258.4	1223.3	998.1	339.6	160.1	153.6	145.7	134.0	122.3	113.2	110.6
32.5°	1322.2	1281.8	918.7	222.5	139.2	134.0	126.2	111.9	96.3	85.9	83.3
35°	1413.2	1367.7	817.2	156.2	122.3	113.2	102.8	87.2	70.3	62.5	61.2
37.5°	1540.8	1479.6	689.7	126.2	108.0	95.0	79.4	63.8	52.1	45.5	44.2
40°	1696.9	1603.2	547.9	111.9	96.3	79.4	59.9	45.5	37.7	32.5	32.5
42.5°	1866.1	1719.1	403.4	102.8	84.6	65.1	44.2	32.5	27.3	24.7	23.4
45°	2040.5	1821.9	272.0	95.0	74.2	49.5	31.2	22.1	18.2	18.2	16.9
47.5°	2221.4	1890.8	175.7	85.9	62.5	36.4	20.8	15.6	13.0	13.0	13.0
50°	2401.0	1927.3	124.9	78.1	50.8	24.7	15.6	11.7	10.4	10.4	10.4
52.5°	2531.1	1903.9	100.2	67.7	39.0	18.2	11.7	9.1	7.8	7.8	7.8
55°	2644.3	1863.5	87.2	58.6	28.6	13.0	9.1	7.8	6.5	6.5	6.5
57.5°	2760.1	1811.5	78.1	49.5	20.8	9.1	6.5	5.2	5.2	5.2	5.2
60°	2865.5	1723.0	67.7	39.0	14.3	6.5	5.2	3.9	3.9	3.9	3.9
62.5°	2968.3	1647.5	58.6	29.9	10.4	5.2	2.6	2.6	1.3	1.3	1.3
65°	3026.9	1546.0	46.8	19.5	6.5	3.9	1.3	1.3	0.0	0.0	0.0
67.5°	3008.7	1425.0	32.5	11.7	3.9	2.6	1.3	0.0	0.0	0.0	0.0
70°	2882.5	1262.3	19.5	6.5	3.9	2.6	1.3	0.0	0.0	0.0	0.0
72.5°	2414.0	934.4	11.7	5.2	2.6	1.3	0.0	0.0	0.0	0.0	0.0
75°	1612.4	429.4	6.5	3.9	1.3	1.3	0.0	0.0	0.0	0.0	0.0
77.5°	737.9	128.8	3.9	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	148.4	33.8	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	31.2	6.5	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°	2.6	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)