

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: P381381

Luminaire Tested: **PRV-PA1B-740-U-T2U-HSS**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P381381
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-16)
Test Lab: INNOVATIONS CENTER
Issue Date: 1/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-PA1B-740-U-T2U-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6893 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

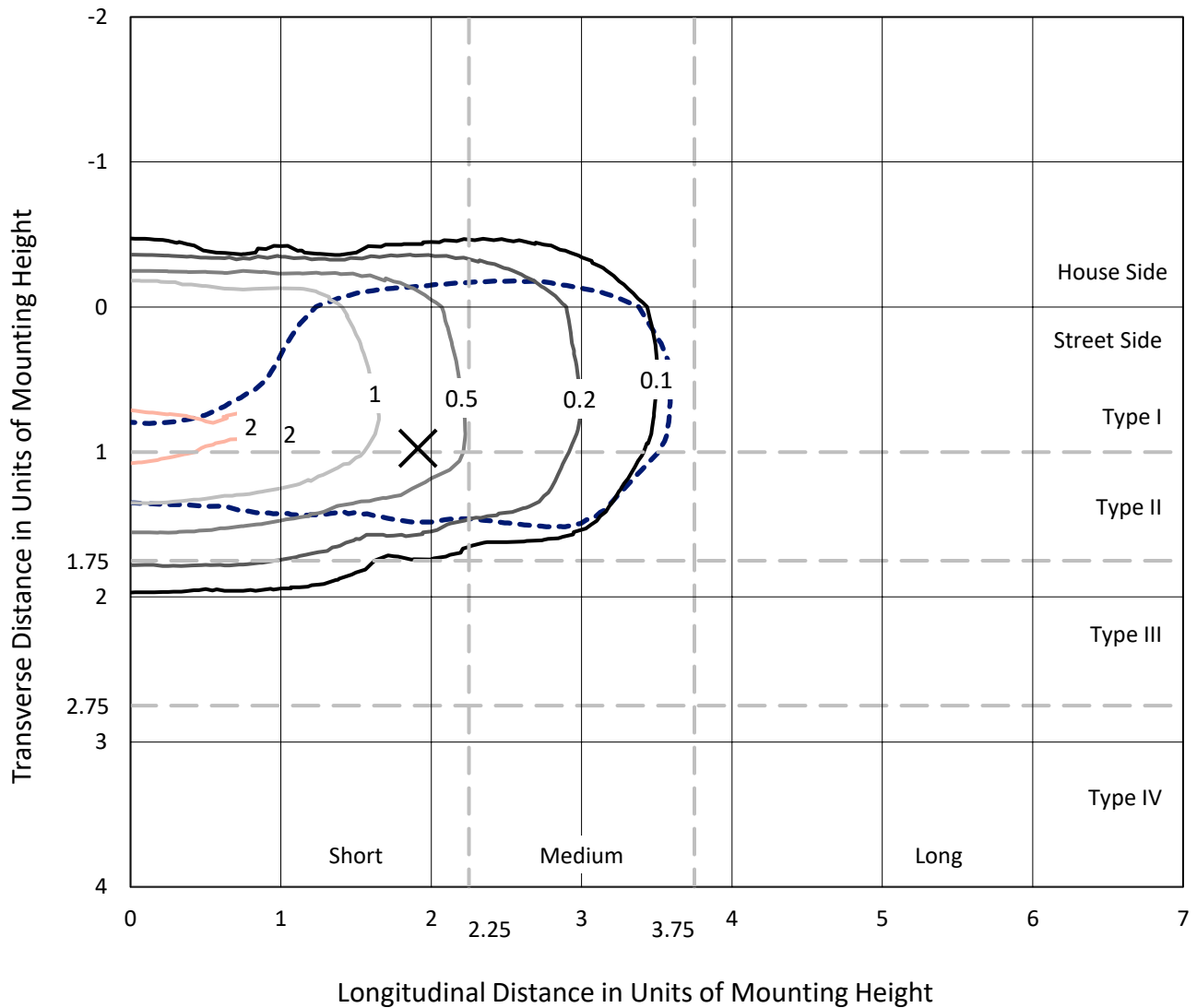
Input Watts (W): 74
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

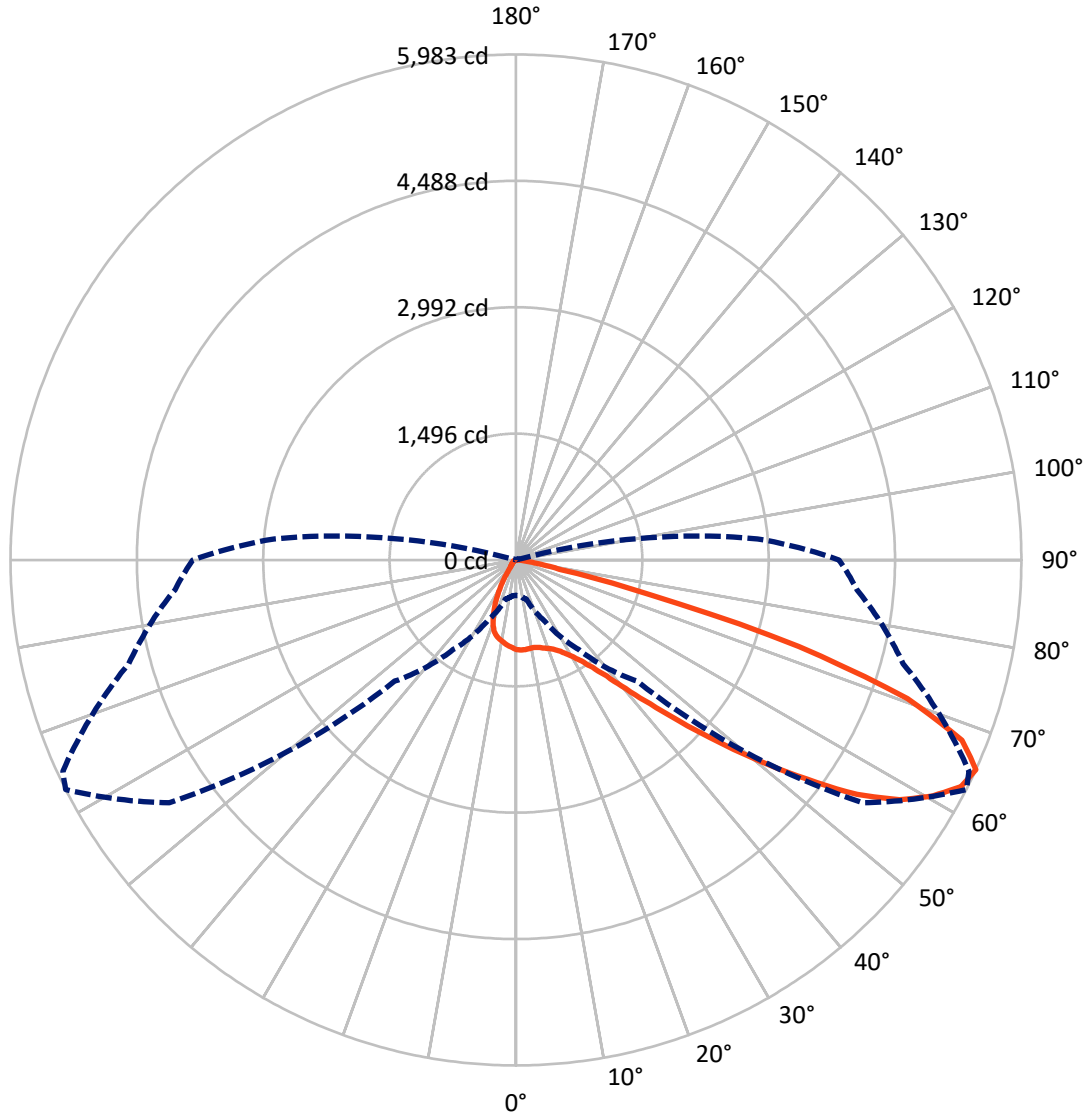
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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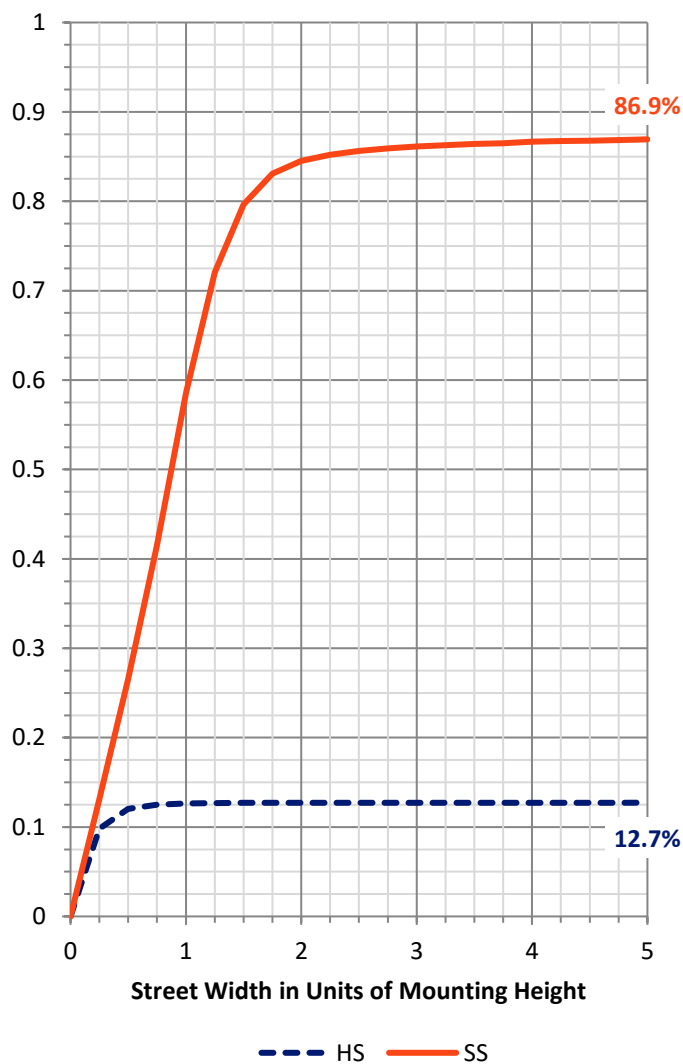
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	887.1	0.0	887.1
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	6005.9	0.0	6005.9
	% Fixture	87.1	0.0	87.1
Total	Lumens	6893.0	0.0	6893.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.9	1.4
10°-20°	239.0	3.5
20°-30°	354.3	5.1
30°-40°	657.8	9.5
40°-50°	1393.5	20.2
50°-60°	1926.9	28.0
60°-70°	1542.5	22.4
70°-80°	640.9	9.3
80°-90°	41.1	0.6
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°	6893.0	100.0
0°-180°	6893.0	100.0

Coefficient of Utilization

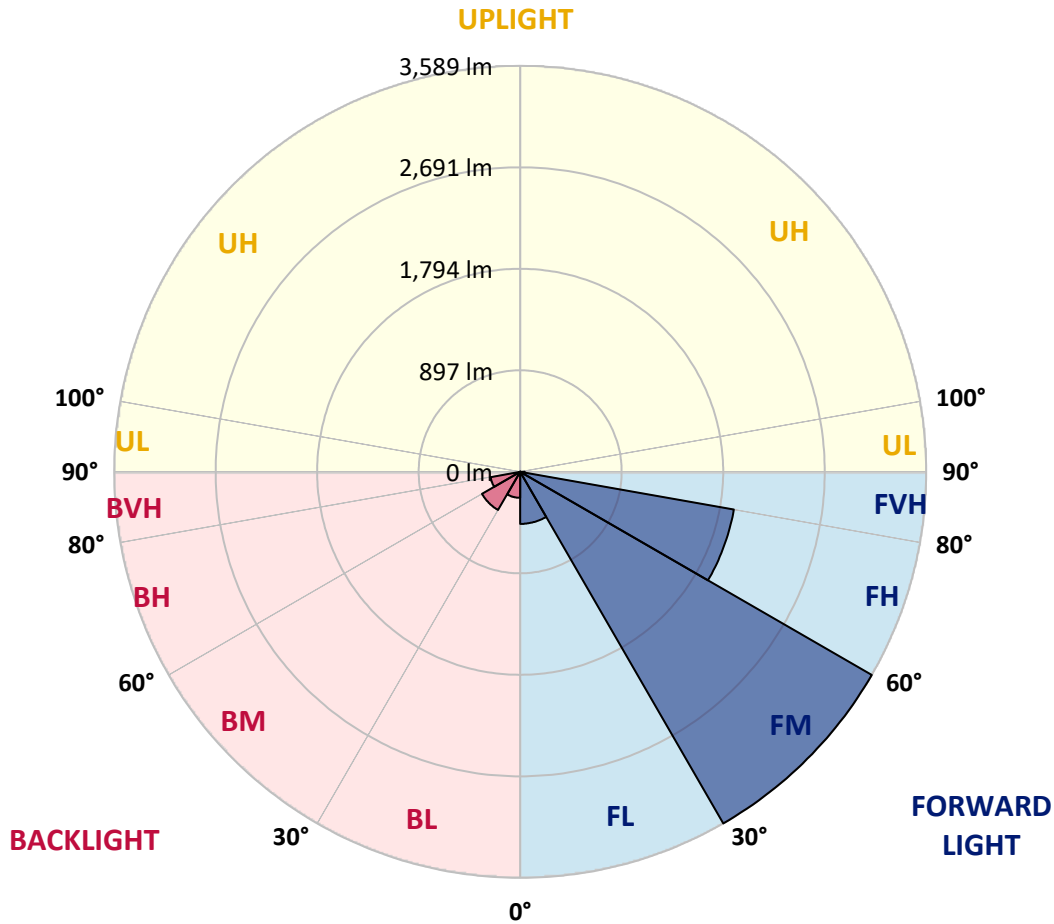


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	460.3	6.7			
FM (30°-60°)	3588.5	52.1			
FH (60°-80°)	1917.8	27.8			G2/5000
FVH (80°-90°)	39.3	0.6			G1/100
BL (0°-30°)	229.9	3.3	B1/500		
BM (30°-60°)	389.7	5.7	B1/1000		
BH (60°-80°)	265.6	3.9	B1/500		G1/500
BVH (80°-90°)	1.9	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1061.9	1061.9	1061.9	1061.9	1061.9	1061.9	1061.9	1061.9	1061.9	1061.9	1061.9
2.5°	1080.1	1077.5	1074.9	1073.6	1073.6	1072.3	1067.1	1065.8	1063.2	1060.6	1058.0
5°	1069.7	1065.8	1064.5	1065.8	1067.1	1069.7	1067.1	1067.1	1064.5	1061.9	1056.7
7.5°	1043.7	1041.0	1042.4	1046.3	1047.6	1056.7	1058.0	1061.9	1061.9	1059.3	1055.4
10°	1012.4	1011.1	1011.1	1017.6	1024.1	1037.1	1046.3	1056.7	1058.0	1058.0	1051.5
12.5°	989.0	987.7	991.6	999.4	1012.4	1029.3	1045.0	1060.6	1063.2	1064.5	1054.1
15°	974.7	974.7	979.9	995.5	1013.7	1037.1	1055.4	1076.2	1078.8	1077.5	1063.2
17.5°	961.7	963.0	973.4	999.4	1020.2	1051.5	1073.6	1097.0	1098.3	1097.0	1073.6
20°	956.5	959.1	974.7	1008.5	1031.9	1067.1	1095.7	1119.1	1120.4	1115.2	1084.0
22.5°	970.8	972.1	991.6	1028.0	1050.2	1089.2	1125.6	1147.8	1149.1	1141.3	1099.6
25°	1020.2	1020.2	1037.1	1068.4	1087.9	1126.9	1166.0	1192.0	1192.0	1182.9	1134.7
27.5°	1136.0	1125.6	1121.7	1130.8	1137.3	1179.0	1220.6	1253.2	1251.9	1238.8	1180.3
30°	1359.9	1333.8	1292.2	1245.4	1221.9	1250.6	1289.6	1331.2	1329.9	1309.1	1236.2
32.5°	1735.9	1698.2	1599.3	1475.7	1375.5	1343.0	1379.4	1424.9	1426.2	1401.5	1326.0
35°	2263.0	2203.1	2026.1	1854.4	1625.3	1501.7	1512.1	1561.6	1577.2	1564.2	1477.0
37.5°	2770.5	2715.8	2546.7	2308.5	1997.5	1745.1	1700.8	1743.8	1762.0	1762.0	1669.6
40°	3281.9	3218.1	3068.5	2829.1	2501.1	2125.0	1966.3	2001.4	2020.9	2024.8	1903.8
42.5°	3691.8	3650.2	3535.7	3349.6	3042.5	2791.3	2348.9	2329.3	2347.6	2333.3	2175.8
45°	3975.5	3943.0	3863.6	3793.3	3643.7	3517.4	2860.3	2728.9	2740.6	2691.1	2481.6
47.5°	4034.1	3997.6	3980.7	4078.3	4185.0	4216.2	3488.8	3203.8	3192.1	3082.8	2799.1
50°	3779.0	3782.9	3845.4	4123.9	4568.9	4850.0	4217.6	3740.0	3697.0	3453.7	3094.5
52.5°	3228.6	3291.0	3448.5	3900.0	4686.0	5310.7	4946.3	4308.6	4242.3	3814.1	3315.7
55°	2525.8	2606.5	2865.5	3384.7	4441.4	5516.3	5560.5	4899.4	4748.5	4084.8	3487.5
57.5°	1877.8	1902.5	2204.4	2678.1	3862.3	5314.6	5875.4	5354.9	5161.0	4300.8	3658.0
60°	1169.9	1185.5	1504.3	2039.2	2925.3	4568.9	5875.4	5668.5	5483.7	4494.7	3814.1
62.5°	727.4	732.6	852.4	1397.6	1988.4	3388.6	5632.1	5911.9	5763.5	4634.0	3948.2
65°	419.0	424.2	480.2	789.9	1293.5	2028.7	5010.1	5983.4	5917.1	4744.6	4052.3
67.5°	305.8	308.4	330.5	443.7	845.9	1042.4	3763.4	5695.8	5779.1	4799.2	4049.7
70°	265.5	269.4	298.0	346.1	610.3	640.2	1915.5	4919.0	5151.9	4721.2	3928.7
72.5°	204.3	209.5	252.5	325.3	447.7	460.7	693.6	3500.5	3853.2	4233.2	3596.8
75°	140.5	145.7	188.7	268.1	369.6	344.8	381.3	1611.0	2032.6	2839.5	2738.0
77.5°	89.8	91.1	118.4	195.2	318.8	244.6	261.6	525.7	737.8	1284.4	1292.2
80°	59.9	61.2	72.9	126.2	218.6	226.4	161.4	243.3	266.8	374.8	260.3
82.5°	36.4	36.4	49.4	79.4	132.7	187.4	105.4	127.5	136.6	144.4	67.7
85°	14.3	14.3	29.9	52.1	83.3	87.2	66.4	74.2	78.1	84.6	31.2
87.5°	3.9	3.9	16.9	28.6	36.4	40.3	40.3	36.4	39.0	48.1	15.6
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°	1061.9	1061.9	1061.9	1061.9	1061.9	1061.9	1061.9	1061.9	1061.9	1061.9	1061.9
2.5°	1056.7	1052.8	1047.6	1042.4	1037.1	1033.2	1029.3	1029.3	1026.7	1022.8	1020.2
5°	1054.1	1047.6	1035.8	1026.7	1012.4	1002.0	994.2	987.7	983.8	974.7	973.4
7.5°	1050.2	1042.4	1025.4	1007.2	983.8	965.6	947.4	934.3	921.3	910.9	908.3
10°	1043.7	1034.5	1009.8	983.8	951.3	917.4	874.5	825.0	779.5	753.5	745.7
12.5°	1043.7	1031.9	999.4	964.3	917.4	834.1	724.8	615.5	530.9	493.2	482.8
15°	1050.2	1034.5	991.6	943.5	856.3	687.1	510.1	365.7	273.3	244.6	238.1
17.5°	1056.7	1034.5	979.9	914.8	744.4	498.4	290.2	192.6	162.7	156.2	156.2
20°	1059.3	1031.9	964.3	861.5	594.7	309.7	173.1	144.4	132.7	128.8	128.8
22.5°	1069.7	1033.2	952.6	784.7	432.0	182.2	136.6	121.0	109.3	105.4	105.4
25°	1095.7	1048.9	955.2	687.1	277.2	137.9	115.8	100.2	88.5	83.3	83.3
27.5°	1137.3	1084.0	969.5	573.9	174.4	118.4	97.6	80.7	71.6	66.4	66.4
30°	1184.2	1123.0	976.0	443.7	130.1	100.2	79.4	63.8	57.3	53.4	52.1
32.5°	1266.2	1190.7	970.8	304.5	106.7	84.6	63.8	50.8	45.5	44.2	44.2
35°	1397.6	1309.1	960.4	191.3	88.5	67.7	50.8	41.6	37.7	36.4	35.1
37.5°	1575.9	1482.2	929.1	126.2	72.9	53.4	41.6	35.1	31.2	29.9	29.9
40°	1793.2	1680.0	869.3	96.3	62.5	42.9	35.1	29.9	27.3	26.0	26.0
42.5°	2041.8	1899.9	774.3	83.3	52.1	36.4	29.9	24.7	23.4	22.1	22.1
45°	2313.7	2130.2	642.8	74.2	44.2	29.9	24.7	22.1	19.5	19.5	18.2
47.5°	2602.6	2361.9	494.5	65.1	37.7	26.0	22.1	18.2	16.9	15.6	15.6
50°	2881.1	2568.8	347.5	56.0	31.2	22.1	18.2	15.6	14.3	13.0	13.0
52.5°	3077.6	2693.7	245.9	48.1	26.0	19.5	14.3	11.7	10.4	10.4	10.4
55°	3235.1	2771.8	171.8	40.3	22.1	16.9	11.7	9.1	9.1	7.8	7.8
57.5°	3383.4	2822.5	126.2	33.8	18.2	13.0	9.1	6.5	6.5	5.2	5.2
60°	3537.0	2849.9	96.3	27.3	15.6	10.4	6.5	5.2	3.9	3.9	3.9
62.5°	3691.8	2866.8	74.2	22.1	13.0	7.8	5.2	3.9	2.6	1.3	1.3
65°	3827.2	2872.0	57.3	16.9	10.4	5.2	3.9	1.3	0.0	0.0	0.0
67.5°	3867.5	2812.1	44.2	13.0	7.8	3.9	2.6	0.0	0.0	0.0	0.0
70°	3758.2	2653.4	33.8	10.4	6.5	2.6	1.3	0.0	0.0	0.0	0.0
72.5°	3335.3	2225.2	26.0	6.5	5.2	2.6	1.3	0.0	0.0	0.0	0.0
75°	2386.6	1186.8	18.2	5.2	3.9	1.3	0.0	0.0	0.0	0.0	0.0
77.5°	1098.3	459.4	13.0	3.9	2.6	1.3	0.0	0.0	0.0	0.0	0.0
80°	214.7	114.5	5.2	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	49.4	19.5	2.6	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.9	6.5	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.5	2.6	1.3	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)