

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: P381254

Luminaire Tested: **PRV-PA2A-740-U-T3-HSS**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P381254
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-PA2A-740-U-T3-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 720mA LIGHT ENGINES 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: 11626 lumens
Efficiency: N/A
Efficacy: 103.8 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

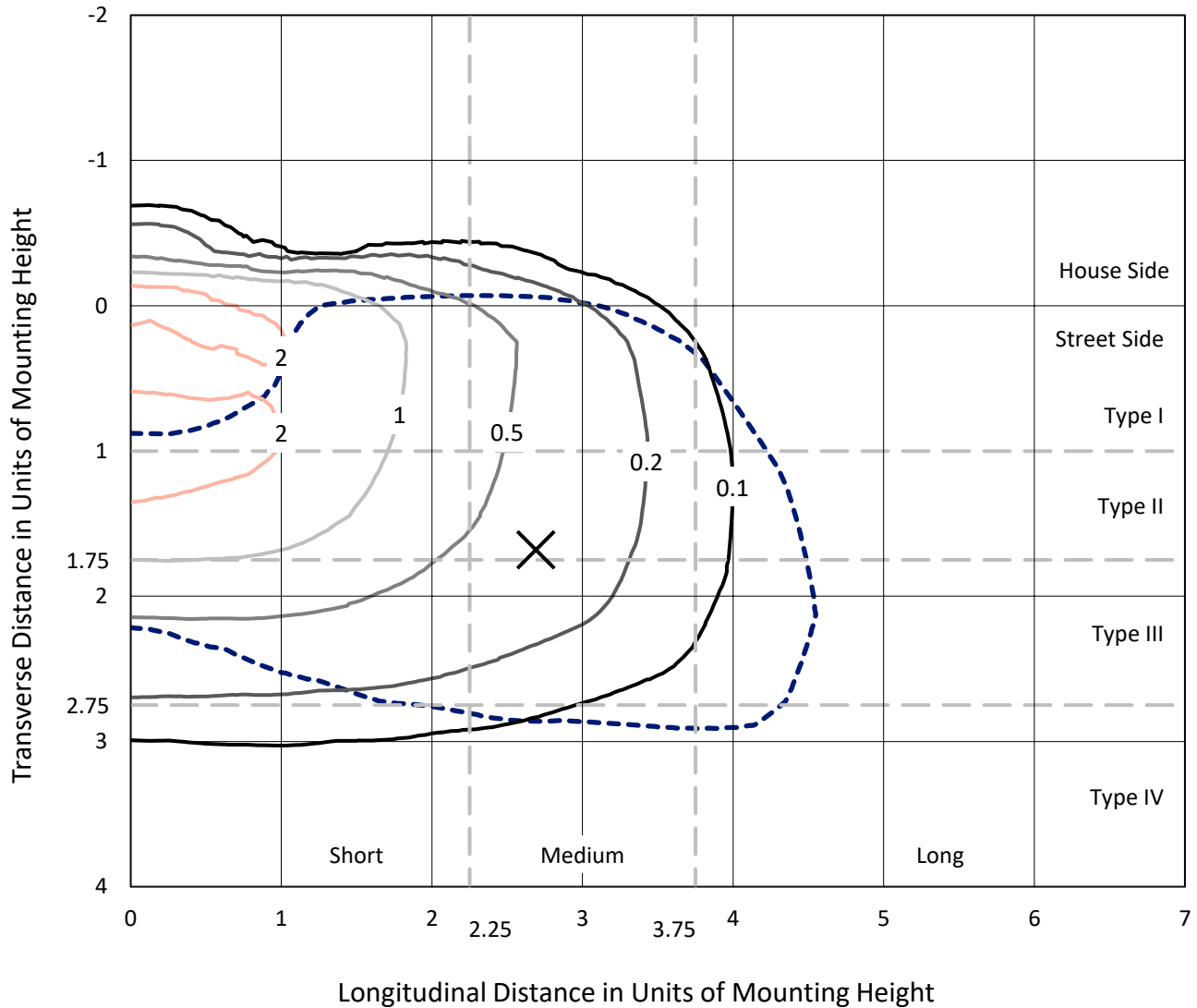
Input Watts (W): 112
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

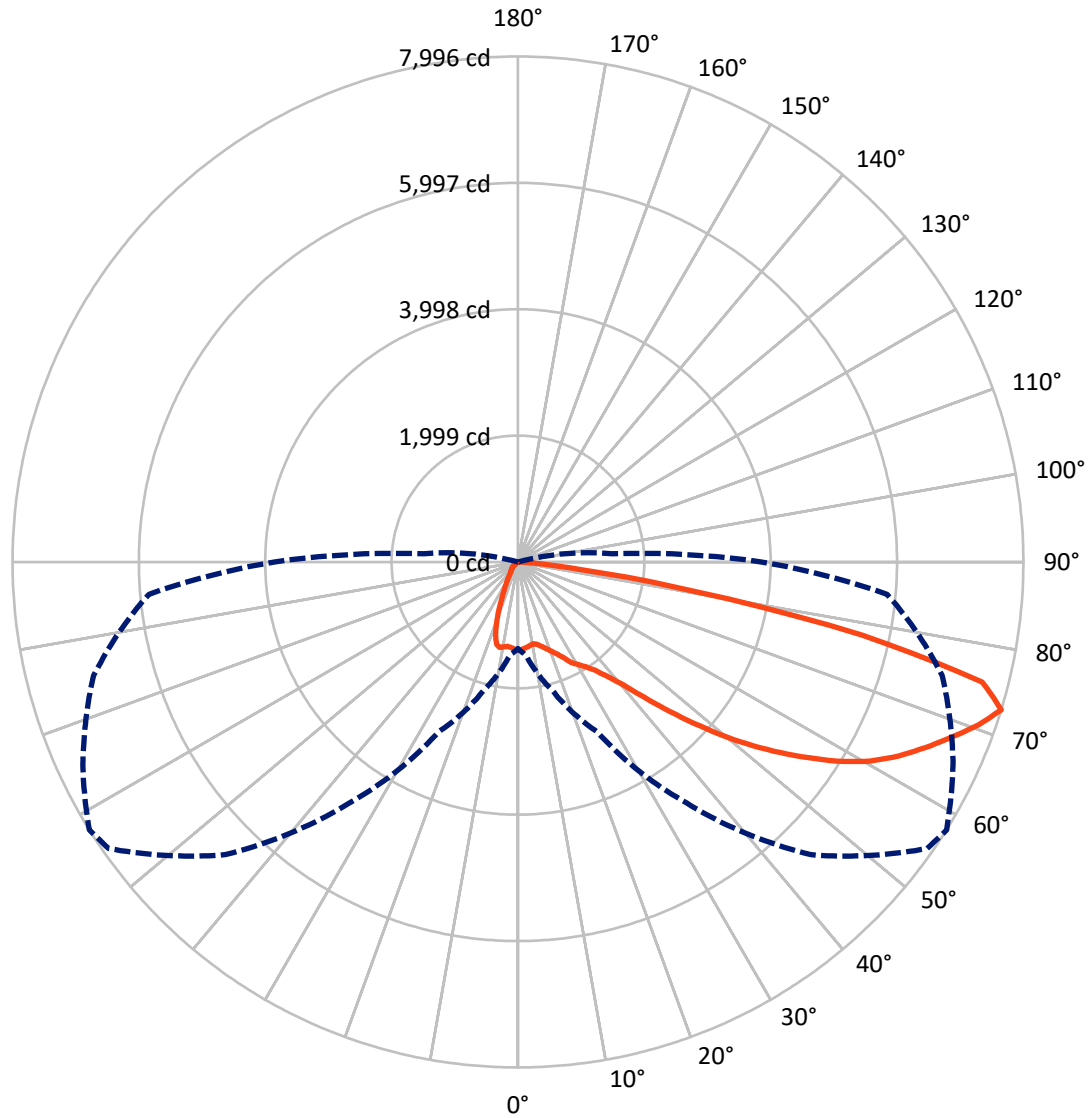
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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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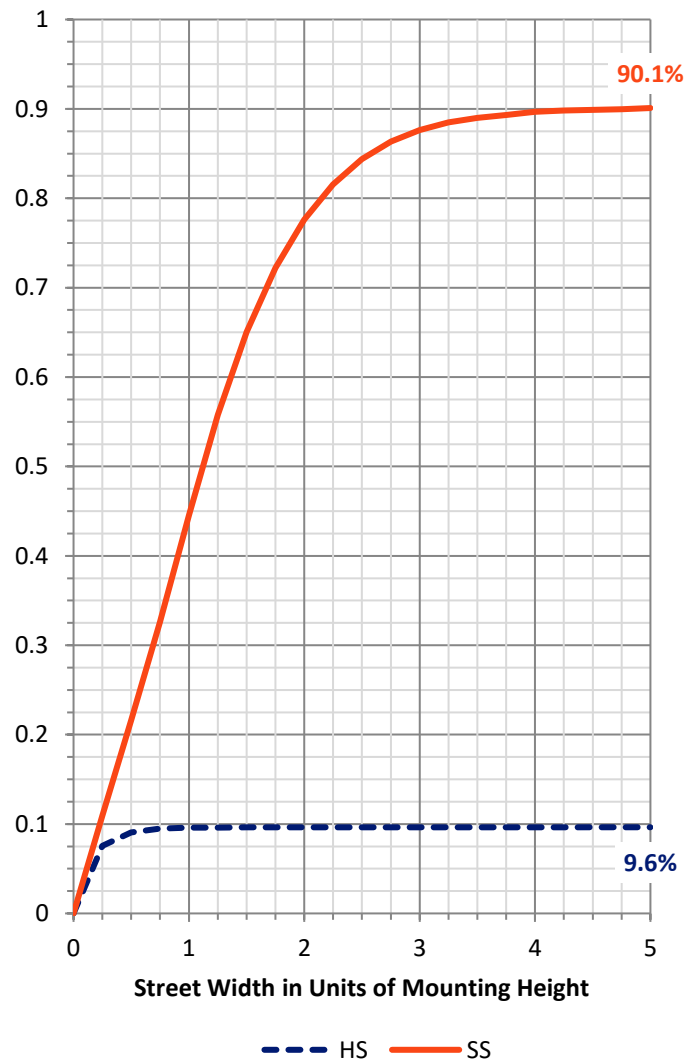
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1130.6	0.0	1130.6
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	10495.5	0.0	10495.5
	% Fixture	90.3	0.0	90.3
Total	Lumens	11626.0	0.0	11626.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.0	1.1
10°-20°	333.5	2.9
20°-30°	523.9	4.5
30°-40°	903.4	7.8
40°-50°	1718.8	14.8
50°-60°	2722.1	23.4
60°-70°	3176.4	27.3
70°-80°	1989.4	17.1
80°-90°	130.6	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°	11626.0	100.0
0°-180°	11626.0	100.0

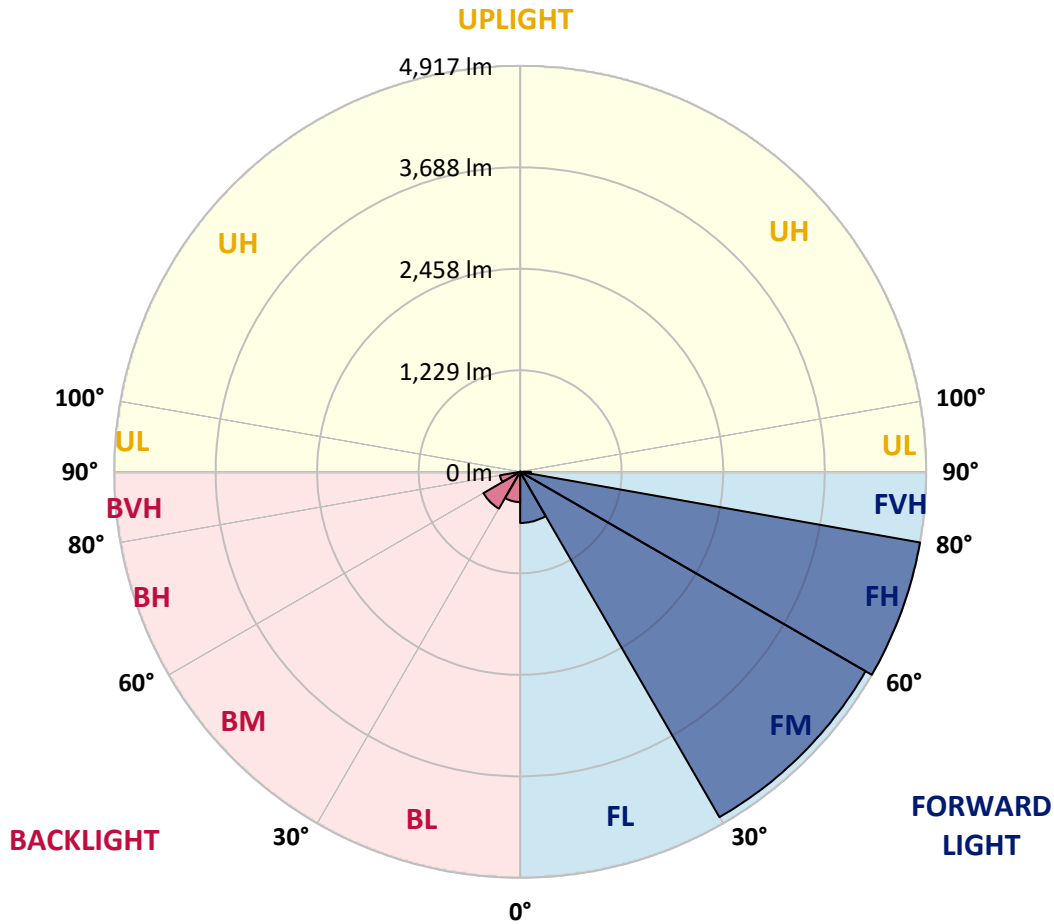


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	619.2	5.3			
FM (30°-60°)	4829.9	41.5			
FH (60°-80°)	4917.0	42.3			G2/5000
FVH (80°-90°)	129.3	1.1			G2/225
BL (0°-30°)	366.1	3.1	B1/500		
BM (30°-60°)	514.4	4.4	B1/1000		
BH (60°-80°)	248.8	2.1	B1/500		G1/500
BVH (80°-90°)	1.3	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°	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0
2.5°	1388.8	1382.6	1380.5	1378.4	1380.5	1382.6	1376.3	1382.6	1378.4	1380.5	1384.7
5°	1338.9	1332.7	1330.6	1332.7	1338.9	1349.3	1353.5	1359.7	1359.7	1365.9	1368.0
7.5°	1282.8	1278.6	1276.5	1280.7	1293.2	1316.0	1328.5	1336.8	1345.2	1357.6	1370.1
10°	1251.6	1249.5	1247.4	1253.7	1266.1	1286.9	1303.6	1316.0	1347.2	1382.6	1405.4
12.5°	1230.8	1230.8	1235.0	1247.4	1264.1	1280.7	1320.2	1336.8	1384.7	1438.7	1469.9
15°	1214.2	1214.2	1220.4	1243.3	1266.1	1305.6	1363.9	1382.6	1438.7	1505.2	1546.8
17.5°	1201.7	1205.9	1210.0	1232.9	1276.5	1343.1	1411.7	1438.7	1507.3	1580.1	1625.8
20°	1203.8	1207.9	1210.0	1232.9	1295.3	1386.7	1474.1	1505.2	1584.2	1661.2	1706.9
22.5°	1216.2	1222.5	1224.6	1255.8	1328.5	1432.5	1544.7	1580.1	1665.3	1746.4	1781.8
25°	1268.2	1272.4	1259.9	1286.9	1376.3	1503.2	1636.2	1673.6	1758.9	1833.7	1862.8
27.5°	1444.9	1449.1	1380.5	1349.3	1413.8	1561.4	1748.5	1800.5	1906.5	1956.4	1960.6
30°	1827.5	1831.7	1696.5	1548.9	1503.2	1611.3	1810.9	1883.6	2020.8	2077.0	2052.0
32.5°	2320.2	2316.1	2131.0	1912.7	1715.2	1698.6	1900.3	1977.2	2126.9	2180.9	2162.2
35°	2815.0	2821.3	2663.3	2334.8	2052.0	1862.8	2014.6	2104.0	2284.9	2361.8	2328.5
37.5°	3153.9	3195.5	3126.9	2771.4	2465.8	2166.4	2199.6	2295.3	2521.9	2625.9	2555.2
40°	3632.1	3621.7	3455.4	3193.4	2923.2	2615.5	2499.0	2544.8	2804.7	2943.9	2833.8
42.5°	4274.5	4253.8	3971.0	3715.3	3413.8	3162.2	2925.2	2916.9	3129.0	3291.2	3131.1
45°	4856.7	4825.5	4632.1	4384.7	4054.2	3765.2	3445.0	3372.2	3519.8	3657.1	3470.0
47.5°	5320.3	5268.3	5131.1	5000.1	4919.1	4470.0	3989.7	3879.5	3954.4	4056.2	3792.2
50°	5869.2	5725.7	5526.1	5447.1	5615.5	5268.3	4513.6	4407.6	4403.4	4461.7	4124.9
52.5°	6118.7	5858.8	5746.5	5813.1	6110.4	6010.6	5079.1	4927.4	4867.1	4873.3	4434.6
55°	5817.2	5788.1	5848.4	6056.3	6445.1	6386.9	5621.8	5434.7	5345.3	5233.0	4731.9
57.5°	5474.2	5563.6	5802.7	6199.8	6869.2	6779.8	6156.1	5944.0	5779.8	5522.0	5062.5
60°	5158.1	5249.6	5644.6	6233.0	7102.1	7158.2	6601.0	6399.3	6156.1	5817.2	5426.3
62.5°	4677.9	4748.6	5303.7	6185.2	7000.2	7378.6	6910.8	6759.0	6532.4	6097.9	5844.2
65°	4137.3	4183.1	4731.9	5802.7	6800.6	7353.6	7166.5	7081.3	6860.9	6391.0	6258.0
67.5°	3544.8	3598.9	4056.2	5114.5	6409.7	7237.2	7407.7	7399.4	7147.8	6715.4	6557.4
70°	2862.9	2867.0	3245.4	4241.3	5727.8	7004.4	7707.1	7725.8	7422.2	6958.6	6569.8
72.5°	1370.1	1482.4	2104.0	2960.6	4655.0	6547.0	7902.5	7996.1	7594.8	6950.3	5860.9
75°	313.9	324.3	613.3	1407.5	2729.8	5025.1	7413.9	7588.6	7174.8	6010.6	4129.0
77.5°	114.3	120.6	172.6	411.7	1049.9	2596.7	5305.8	5561.5	5303.7	3885.8	1952.2
80°	76.9	74.8	89.4	183.0	482.3	736.0	2713.2	2864.9	2615.5	1326.4	467.8
82.5°	39.5	41.6	62.4	101.9	324.3	255.7	906.5	985.5	810.8	266.1	87.3
85°	18.7	18.7	35.3	64.5	137.2	89.4	201.7	243.2	218.3	116.4	29.1
87.5°	18.7	18.7	33.3	41.6	70.7	37.4	49.9	62.4	58.2	62.4	10.4
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°	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0
2.5°	1384.7	1382.6	1380.5	1384.7	1382.6	1386.7	1386.7	1390.9	1390.9	1386.7	1384.7
5°	1365.9	1361.8	1357.6	1357.6	1355.5	1359.7	1372.2	1382.6	1384.7	1378.4	1376.3
7.5°	1368.0	1368.0	1363.9	1355.5	1341.0	1341.0	1341.0	1353.5	1359.7	1355.5	1353.5
10°	1405.4	1407.5	1397.1	1378.4	1353.5	1330.6	1286.9	1222.5	1162.2	1145.6	1139.3
12.5°	1469.9	1472.0	1451.2	1417.9	1365.9	1230.8	1064.5	910.6	792.1	758.9	752.6
15°	1546.8	1548.9	1511.5	1457.4	1299.4	985.5	738.1	563.4	459.5	434.5	432.4
17.5°	1625.8	1621.7	1565.5	1461.6	1101.9	698.6	449.1	359.7	332.6	326.4	328.5
20°	1702.7	1690.3	1613.4	1384.7	848.3	457.4	328.5	307.7	301.5	297.3	297.3
22.5°	1773.4	1748.5	1652.9	1232.9	594.6	328.5	293.1	289.0	280.7	274.4	272.4
25°	1844.1	1808.8	1677.8	1035.4	399.2	286.9	276.5	268.2	257.8	249.5	247.4
27.5°	1929.4	1879.5	1665.3	785.9	299.4	266.1	257.8	245.3	230.8	218.3	214.1
30°	2010.5	1954.3	1594.6	542.6	255.7	245.3	232.9	214.1	195.4	180.9	176.7
32.5°	2112.3	2047.9	1467.8	355.5	222.5	214.1	201.7	178.8	153.9	137.2	133.1
35°	2257.9	2185.1	1305.6	249.5	195.4	180.9	164.2	139.3	112.3	99.8	97.7
37.5°	2461.6	2363.9	1101.9	201.7	172.6	151.8	126.8	101.9	83.2	72.8	70.7
40°	2711.1	2561.4	875.3	178.8	153.9	126.8	95.6	72.8	60.3	52.0	52.0
42.5°	2981.4	2746.4	644.5	164.2	135.1	104.0	70.7	52.0	43.7	39.5	37.4
45°	3260.0	2910.7	434.5	151.8	118.5	79.0	49.9	35.3	29.1	29.1	27.0
47.5°	3549.0	3020.9	280.7	137.2	99.8	58.2	33.3	24.9	20.8	20.8	20.8
50°	3835.9	3079.1	199.6	124.7	81.1	39.5	24.9	18.7	16.6	16.6	16.6
52.5°	4043.8	3041.7	160.1	108.1	62.4	29.1	18.7	14.6	12.5	12.5	12.5
55°	4224.6	2977.2	139.3	93.6	45.7	20.8	14.6	12.5	10.4	10.4	10.4
57.5°	4409.7	2894.1	124.7	79.0	33.3	14.6	10.4	8.3	8.3	8.3	8.3
60°	4578.1	2752.7	108.1	62.4	22.9	10.4	8.3	6.2	6.2	6.2	6.2
62.5°	4742.3	2632.1	93.6	47.8	16.6	8.3	4.2	4.2	2.1	2.1	2.1
65°	4835.9	2469.9	74.8	31.2	10.4	6.2	2.1	2.1	0.0	0.0	0.0
67.5°	4806.8	2276.6	52.0	18.7	6.2	4.2	2.1	0.0	0.0	0.0	0.0
70°	4605.1	2016.7	31.2	10.4	6.2	4.2	2.1	0.0	0.0	0.0	0.0
72.5°	3856.7	1492.8	18.7	8.3	4.2	2.1	0.0	0.0	0.0	0.0	0.0
75°	2576.0	686.1	10.4	6.2	2.1	2.1	0.0	0.0	0.0	0.0	0.0
77.5°	1178.8	205.8	6.2	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	237.0	54.1	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	49.9	10.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.4	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.2	2.1	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)