

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: P381180

Luminaire Tested: **PRV-PA1A-730-U-T2R-HSS**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P381180
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-13)
Test Lab: INNOVATIONS CENTER
Issue Date: 1/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-PA1A-730-U-T2R-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5470 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

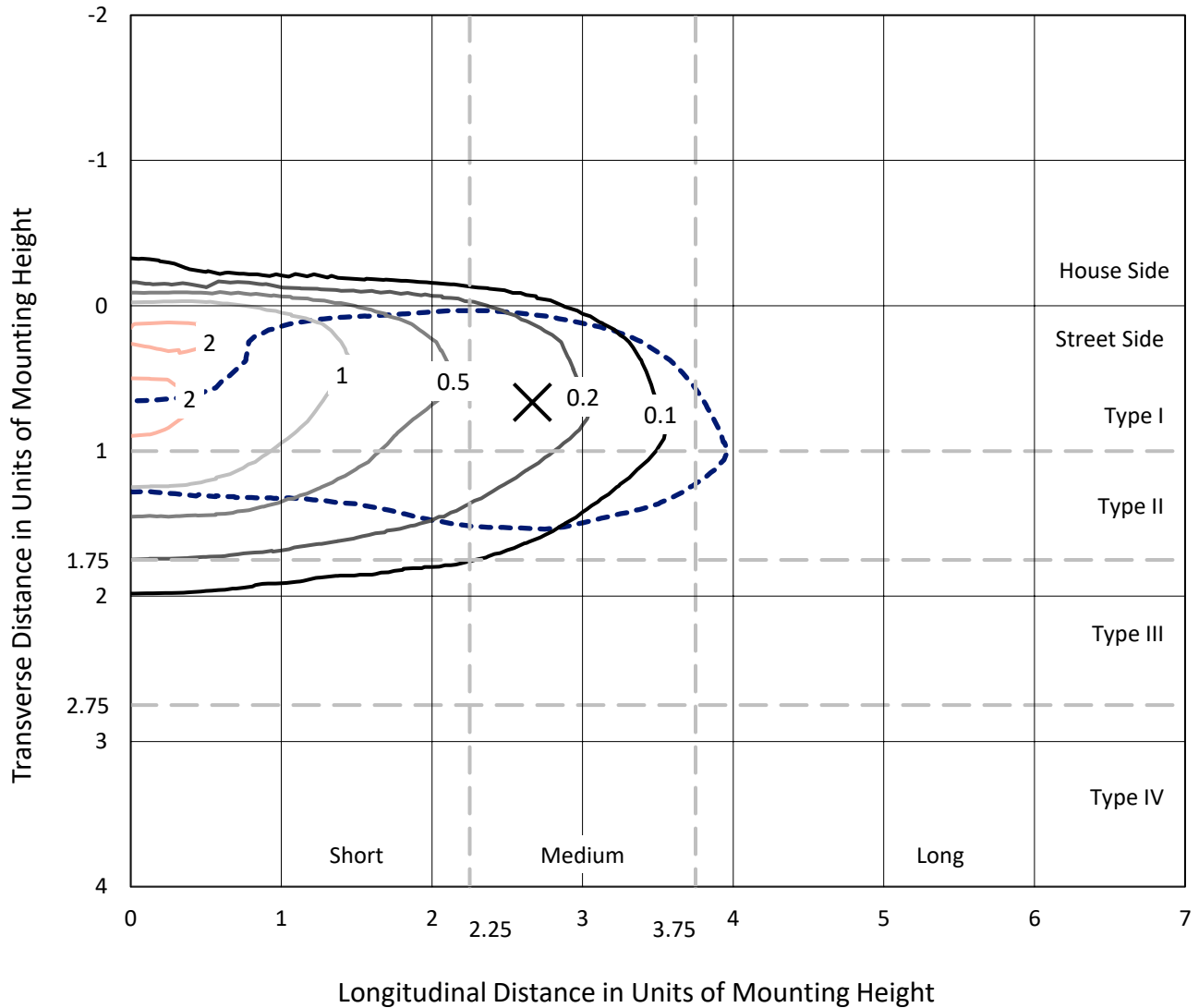
Input Watts (W): 54
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

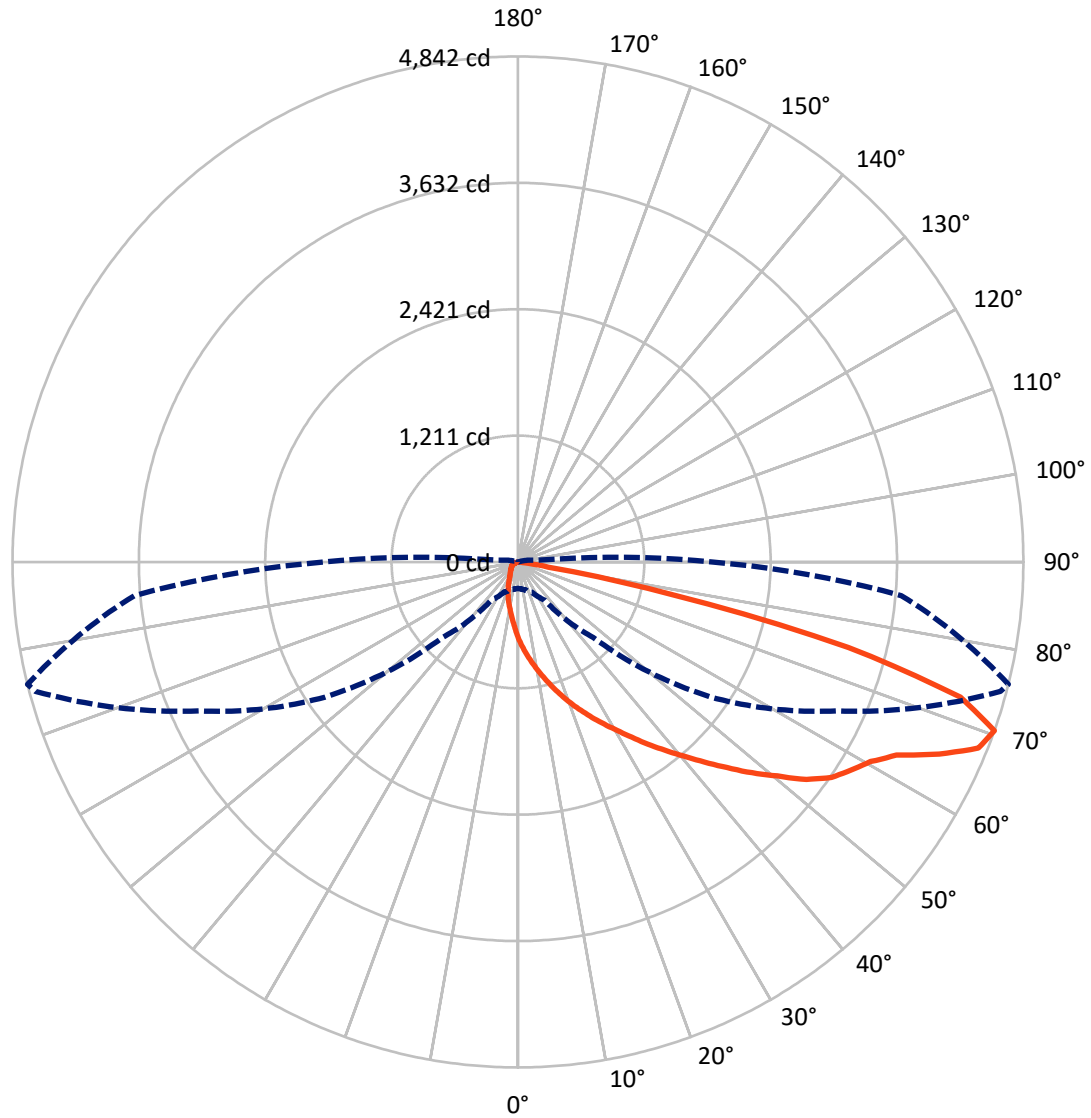
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	258.0	0.0	258.0
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	5212.0	0.0	5212.0
	% Fixture	95.3	0.0	95.3
Total	Lumens	5470.0	0.0	5470.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.0	1.3
10°-20°	222.6	4.1
20°-30°	414.6	7.6
30°-40°	733.4	13.4
40°-50°	1121.5	20.5
50°-60°	1271.5	23.2
60°-70°	1090.0	19.9
70°-80°	527.9	9.7
80°-90°	19.6	0.4
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°	5470.0	100.0
0°-180°	5470.0	100.0

Coefficient of Utilization



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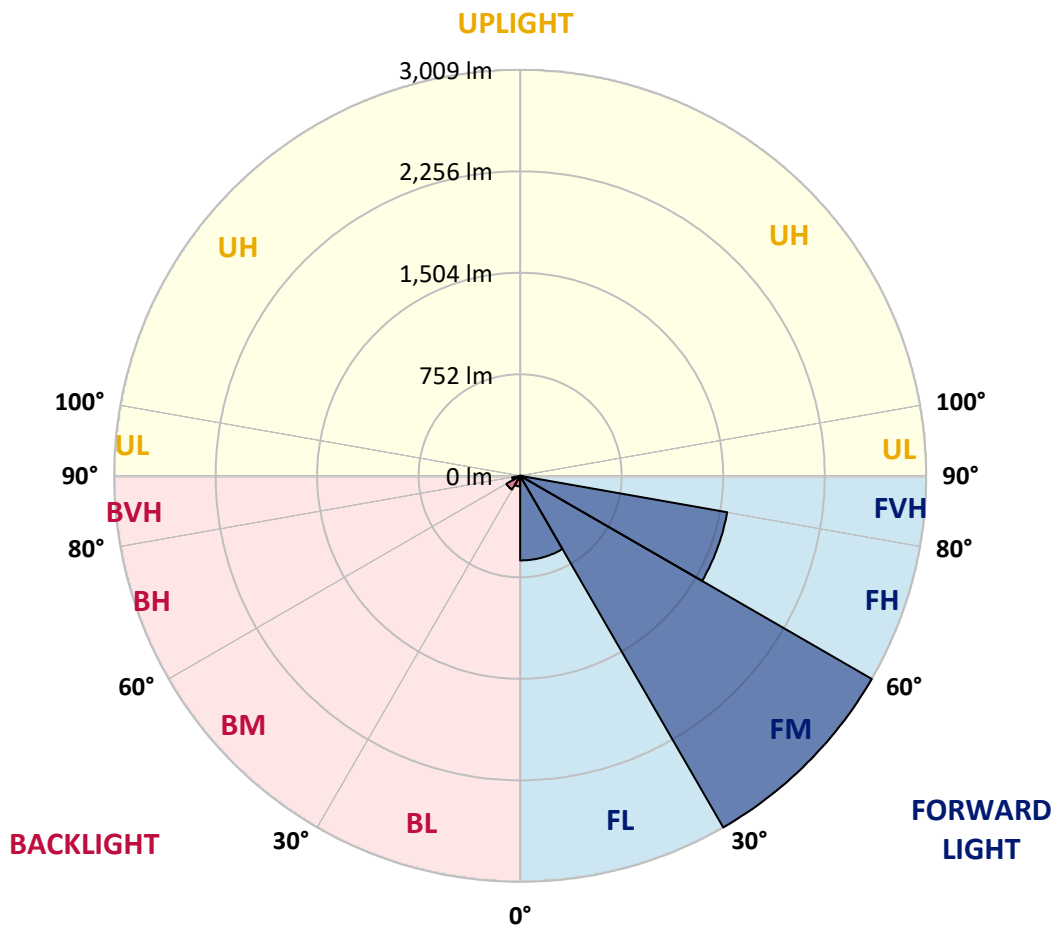
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	627.1	11.5			
FM (30°-60°)	3008.5	55.0			
FH (60°-80°)	1557.2	28.5			G1/1800
FVH (80°-90°)	19.2	0.4			G1/100
BL (0°-30°)	79.1	1.4	B0/110		
BM (30°-60°)	117.8	2.2	B0/220		
BH (60°-80°)	60.7	1.1	B0/110		G0/110
BVH (80°-90°)	0.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	732.2	732.2	732.2	732.2	732.2	732.2	732.2	732.2	732.2	732.2	732.2
2.5°	1000.8	995.4	989.9	969.0	949.8	932.5	899.8	857.0	818.7	810.5	765.9
5°	1175.7	1169.3	1161.1	1140.2	1115.6	1086.5	1038.2	972.6	905.2	890.7	807.8
7.5°	1294.1	1288.6	1276.8	1266.8	1242.2	1213.9	1160.2	1083.7	990.8	972.6	856.0
10°	1375.1	1371.5	1369.7	1361.5	1343.3	1320.5	1266.8	1186.6	1077.3	1056.4	907.0
12.5°	1404.3	1404.3	1413.4	1427.1	1429.8	1422.5	1373.3	1293.2	1168.4	1146.6	967.2
15°	1365.1	1369.7	1389.7	1433.4	1479.0	1509.0	1478.0	1403.4	1268.6	1244.9	1038.2
17.5°	1354.2	1358.7	1372.4	1410.7	1471.7	1551.8	1567.3	1509.9	1363.3	1343.3	1111.0
20°	1385.2	1389.7	1401.6	1434.3	1480.8	1561.8	1626.5	1612.8	1463.5	1442.5	1184.8
22.5°	1458.9	1461.7	1461.7	1487.2	1528.1	1588.2	1663.8	1710.3	1566.4	1543.6	1257.7
25°	1617.4	1611.9	1590.1	1577.3	1603.7	1652.9	1711.2	1795.9	1681.1	1650.2	1336.0
27.5°	1825.0	1843.2	1790.4	1729.4	1709.4	1737.6	1777.7	1871.5	1792.2	1759.5	1407.0
30°	2106.4	2099.1	2029.9	1942.5	1856.0	1846.0	1859.6	1936.1	1903.3	1872.4	1486.2
32.5°	2337.7	2351.4	2278.5	2172.0	2042.7	1981.7	1967.1	2013.5	2021.7	2001.7	1580.0
35°	2575.4	2590.0	2519.0	2400.6	2246.7	2144.7	2102.8	2109.2	2168.4	2142.9	1678.4
37.5°	2788.5	2801.3	2731.2	2610.0	2456.1	2331.4	2271.3	2222.1	2310.4	2287.7	1782.2
40°	2950.6	2952.5	2905.1	2796.7	2651.0	2521.7	2453.4	2356.9	2460.7	2445.2	1890.6
42.5°	3065.4	3069.0	3034.4	2941.5	2806.7	2686.5	2631.0	2516.2	2633.7	2620.1	2016.3
45°	3119.1	3125.5	3121.8	3036.2	2924.2	2820.4	2802.2	2685.6	2823.1	2810.4	2161.1
47.5°	3068.1	3068.1	3114.6	3102.7	2999.8	2930.6	2951.5	2862.3	3029.0	3017.1	2308.6
50°	2855.9	2858.7	2953.4	3089.1	3029.0	3013.5	3079.0	3035.3	3215.6	3222.9	2485.3
52.5°	2298.6	2294.0	2613.7	2874.1	3008.9	3050.8	3196.5	3212.0	3439.7	3461.5	2661.0
55°	1717.6	1714.8	2020.8	2493.5	2868.7	3031.7	3262.1	3369.6	3630.9	3644.6	2792.2
57.5°	1359.7	1352.4	1520.9	2009.9	2551.8	2946.1	3264.8	3399.6	3737.5	3761.1	2919.7
60°	1045.5	1039.1	1164.8	1495.4	2102.8	2718.4	3186.5	3401.4	3840.4	3882.3	3090.9
62.5°	747.7	755.0	851.5	1072.8	1617.4	2396.9	3084.5	3426.9	4023.4	4070.8	3334.0
65°	504.5	500.9	581.0	730.4	1150.2	1964.4	2927.9	3480.7	4353.1	4436.0	3625.5
67.5°	350.6	353.3	389.8	475.4	730.4	1508.1	2667.4	3510.7	4693.7	4758.4	3829.5
70°	253.2	256.8	276.8	319.7	446.2	1022.7	2254.9	3373.2	4785.7	4842.1	3687.4
72.5°	166.7	173.9	204.0	226.8	285.0	640.2	1661.1	2906.0	4389.5	4431.4	3093.6
75°	90.2	92.0	131.1	169.4	203.1	398.9	990.8	1959.8	3283.9	3270.3	2039.9
77.5°	70.1	72.9	81.1	121.1	136.6	219.5	391.6	885.2	1555.5	1513.6	695.8
80°	42.8	44.6	56.5	71.9	95.6	127.5	114.7	240.4	316.0	296.0	102.0
82.5°	25.5	27.3	33.7	60.1	75.6	60.1	40.1	58.3	59.2	58.3	25.5
85°	4.6	4.6	23.7	41.9	40.1	17.3	23.7	19.1	17.3	18.2	5.5
87.5°	0.0	0.0	9.1	12.7	18.2	6.4	9.1	4.6	4.6	4.6	2.7
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°	732.2	732.2	732.2	732.2	732.2	732.2	732.2	732.2	732.2	732.2	732.2
2.5°	738.6	707.6	643.9	588.3	532.8	491.8	460.8	428.9	418.0	404.3	397.1
5°	751.3	690.3	563.7	462.6	377.0	311.5	269.6	244.1	227.7	215.8	213.1
7.5°	770.4	676.6	499.1	362.5	268.7	203.1	168.5	151.2	142.1	136.6	134.8
10°	793.2	664.8	435.3	282.3	189.4	143.0	123.9	116.6	112.9	111.1	110.2
12.5°	825.1	660.3	381.6	217.7	143.0	117.5	107.5	102.9	100.2	97.4	96.5
15°	867.0	662.1	332.4	168.5	118.4	104.7	96.5	92.0	88.3	85.6	85.6
17.5°	910.7	664.8	284.1	136.6	107.5	95.6	86.5	80.1	77.4	74.7	73.8
20°	951.7	663.9	237.7	116.6	97.4	85.6	76.5	70.1	65.6	62.8	62.8
22.5°	990.8	658.4	194.0	104.7	89.2	75.6	65.6	59.2	55.6	52.8	52.8
25°	1032.7	647.5	158.5	95.6	79.2	66.5	56.5	50.1	47.4	44.6	44.6
27.5°	1065.5	629.3	129.3	87.4	70.1	57.4	48.3	42.8	40.1	38.2	38.2
30°	1101.0	602.9	107.5	78.3	61.0	49.2	41.0	36.4	33.7	32.8	32.8
32.5°	1140.2	573.7	92.0	69.2	51.9	41.9	34.6	31.9	29.1	28.2	28.2
35°	1185.7	548.2	82.9	60.1	45.5	35.5	30.1	27.3	25.5	25.5	25.5
37.5°	1237.6	521.8	74.7	52.8	39.2	30.1	25.5	24.6	23.7	22.8	22.8
40°	1294.1	493.6	67.4	46.4	33.7	25.5	21.9	21.9	20.9	20.9	20.9
42.5°	1357.8	469.0	61.0	41.0	29.1	21.9	19.1	19.1	18.2	18.2	18.2
45°	1427.1	446.2	55.6	36.4	25.5	19.1	17.3	16.4	15.5	15.5	15.5
47.5°	1509.0	433.5	51.0	31.9	21.9	16.4	14.6	13.7	12.7	11.8	11.8
50°	1613.7	439.0	46.4	26.4	19.1	13.7	11.8	10.9	10.0	9.1	9.1
52.5°	1696.6	436.2	40.1	22.8	15.5	10.9	9.1	8.2	7.3	6.4	6.4
55°	1756.7	425.3	34.6	19.1	11.8	9.1	7.3	5.5	4.6	4.6	4.6
57.5°	1815.9	414.4	29.1	15.5	9.1	6.4	4.6	3.6	3.6	3.6	3.6
60°	1907.9	398.9	25.5	12.7	7.3	4.6	2.7	2.7	1.8	1.8	1.8
62.5°	2019.9	379.8	20.9	10.9	5.5	3.6	1.8	1.8	0.0	0.0	0.0
65°	2142.9	346.1	17.3	8.2	4.6	2.7	1.8	0.0	0.0	0.0	0.0
67.5°	2114.6	277.8	14.6	5.5	3.6	1.8	0.9	0.0	0.0	0.0	0.0
70°	1870.6	187.6	11.8	4.6	2.7	1.8	0.9	0.0	0.0	0.0	0.0
72.5°	1465.3	111.1	8.2	3.6	1.8	0.9	0.0	0.0	0.0	0.0	0.0
75°	938.0	55.6	5.5	2.7	1.8	0.9	0.0	0.0	0.0	0.0	0.0
77.5°	314.2	27.3	3.6	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	44.6	9.1	1.8	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	10.0	3.6	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.6	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	0.9	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)