

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: P961572

Luminaire Tested: **NAV-SB2A-830-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961572
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2A-830-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6364.2 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 57.3
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: 24 FT



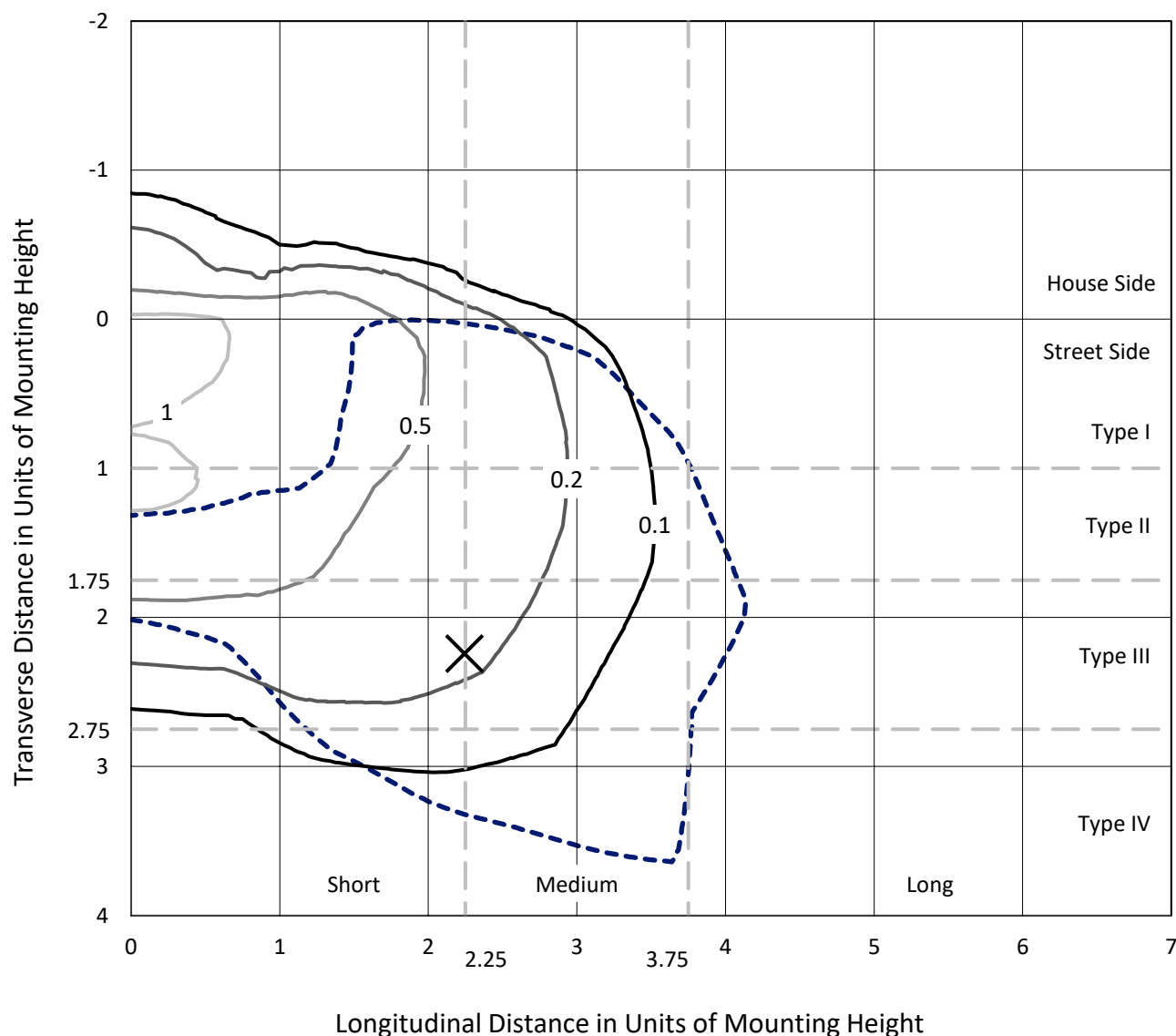
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

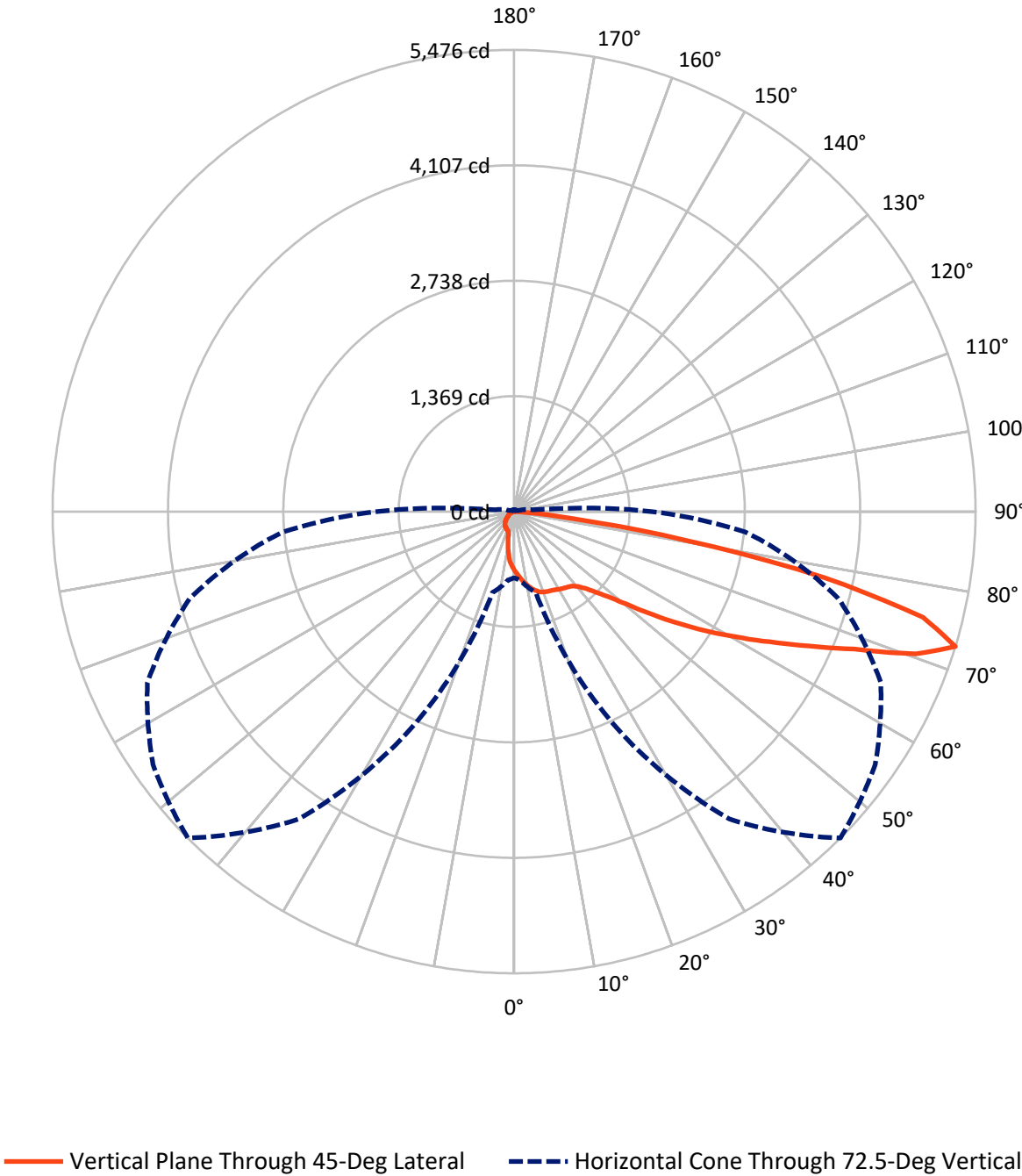


Based on 25 foot mounting height. Maximum calculated value = 1.5 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	668.7	0.0	668.7
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	5695.5	0.0	5695.5
	% Fixture	89.5	0.0	89.5
Total	Lumens	6364.2	0.0	6364.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.7	1.0
10°-20°	192.0	3.0
20°-30°	315.3	5.0
30°-40°	447.1	7.0
40°-50°	739.1	11.6
50°-60°	1327.7	20.9
60°-70°	1843.5	29.0
70°-80°	1337.2	21.0
80°-90°	96.7	1.5
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°	6364.2	100.0
0°-180°	6364.2	100.0

Coefficient of Utilization



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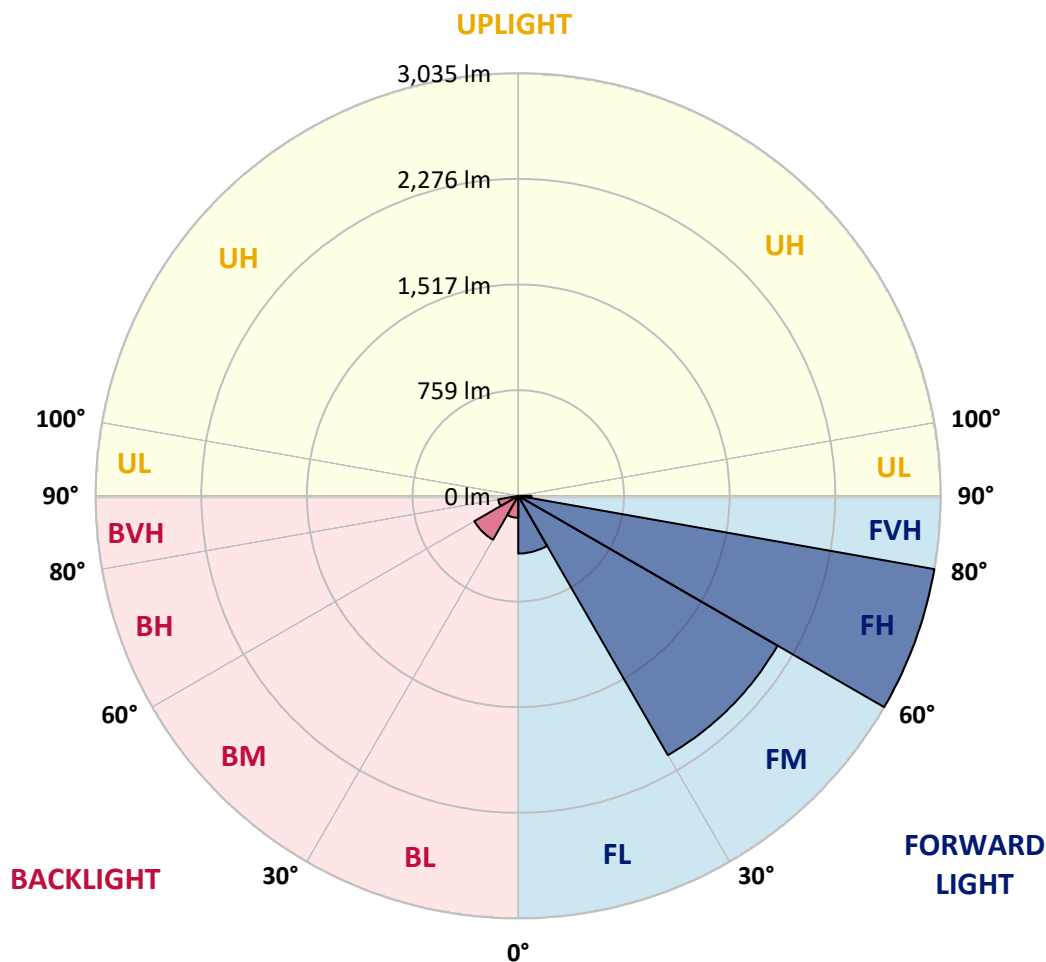
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	414.6	6.5			
FM	(30°-60°)	2150.2	33.8			
FH	(60°-80°)	3034.9	47.7			G2/5000
FVH	(80°-90°)	95.9	1.5			G1/100
BL	(0°-30°)	158.4	2.5	B1/500		
BM	(30°-60°)	363.7	5.7	B1/1000		
BH	(60°-80°)	145.8	2.3	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	697.2	697.2	697.2	697.2	697.2	697.2	697.2	697.2	697.2	697.2	697.2
2.5°	761.5	762.8	762.0	756.8	748.0	743.2	740.7	732.0	726.3	716.4	705.9
5°	831.5	836.7	833.6	823.2	806.7	795.0	791.5	773.7	757.6	738.9	717.2
7.5°	905.7	908.4	902.7	889.2	867.0	847.1	844.1	819.3	793.7	765.0	735.4
10°	970.1	973.0	964.4	944.8	919.6	894.8	890.5	863.2	832.7	797.6	759.7
12.5°	1023.9	1026.9	1015.7	992.2	964.4	938.7	934.4	905.7	872.3	833.2	786.3
15°	1064.7	1070.4	1055.1	1029.9	1000.0	974.4	972.2	943.9	911.3	868.0	817.9
17.5°	1088.7	1094.3	1079.9	1049.5	1023.9	1002.1	999.6	976.1	945.7	903.9	848.8
20°	1092.5	1097.8	1082.5	1056.1	1034.7	1017.4	1016.1	999.2	976.9	937.1	882.3
22.5°	1080.8	1087.3	1073.4	1052.2	1037.3	1028.2	1026.5	1016.9	1004.3	970.5	913.6
25°	1068.7	1073.8	1063.4	1044.8	1036.9	1036.1	1037.3	1035.7	1033.0	1004.3	950.1
27.5°	1067.7	1073.4	1061.7	1043.9	1039.6	1048.7	1049.9	1058.2	1060.4	1035.1	985.2
30°	1075.1	1079.0	1067.7	1049.1	1046.9	1067.7	1068.2	1082.9	1086.4	1061.3	1020.0
32.5°	1091.2	1095.5	1084.2	1056.9	1053.9	1082.9	1084.2	1103.8	1109.5	1089.1	1056.5
35°	1129.0	1134.3	1121.1	1078.6	1067.7	1097.3	1101.2	1124.2	1135.5	1118.6	1094.3
37.5°	1223.2	1208.1	1190.2	1122.5	1099.5	1119.9	1126.4	1153.3	1173.3	1153.7	1139.4
40°	1457.4	1409.7	1354.0	1197.2	1155.1	1168.1	1173.3	1200.3	1227.6	1208.5	1201.5
42.5°	1808.8	1752.3	1662.9	1369.2	1238.9	1245.5	1249.4	1272.8	1311.5	1296.2	1298.0
45°	2122.1	2101.7	2010.4	1662.9	1395.7	1363.6	1368.4	1380.6	1437.5	1431.8	1443.1
47.5°	2362.7	2350.9	2280.6	2000.0	1660.7	1508.3	1521.7	1527.4	1609.5	1629.4	1659.9
50°	2547.7	2543.4	2480.4	2299.7	2007.0	1721.5	1726.3	1714.1	1837.1	1886.6	1944.4
52.5°	2722.4	2737.2	2690.7	2578.2	2376.6	2000.9	2000.0	1942.7	2108.6	2183.4	2282.0
55°	2880.0	2885.3	2890.1	2862.3	2748.4	2318.9	2310.6	2216.8	2423.5	2500.9	2607.7
57.5°	3028.3	3030.4	3073.0	3129.8	3135.5	2660.3	2645.1	2532.6	2767.6	2822.7	2888.3
60°	3127.7	3137.7	3227.6	3385.7	3454.8	3012.6	3004.3	2889.7	3117.7	3143.4	3131.2
62.5°	2984.3	3045.2	3271.9	3585.6	3756.3	3403.1	3399.2	3291.5	3486.0	3465.2	3361.0
65°	2415.7	2518.6	2917.5	3720.6	4052.1	3839.2	3844.9	3730.2	3864.5	3796.7	3547.7
67.5°	1689.8	1798.5	2270.2	3731.5	4382.7	4351.4	4384.0	4204.1	4266.3	4114.2	3592.1
70°	1168.5	1224.6	1531.7	3497.8	4640.3	5056.8	5056.0	4786.2	4665.9	4258.9	3366.2
72.5°	785.9	815.0	994.8	2775.0	4450.9	5476.1	5450.8	5231.1	4800.6	3983.0	2750.2
75°	331.5	352.7	460.4	1559.5	3521.3	5010.0	4941.7	4622.9	4265.4	3136.4	1715.8
77.5°	105.2	114.3	181.6	558.2	1939.6	3765.8	3693.7	2887.0	2858.8	1573.4	627.3
80°	49.9	58.2	102.1	224.2	763.2	2048.2	2038.2	1309.7	1229.8	424.9	126.0
82.5°	21.7	25.6	56.5	119.9	341.4	730.6	745.5	445.7	368.8	161.1	38.6
85°	7.0	9.1	26.0	55.1	144.2	181.6	179.4	106.0	148.5	87.7	13.4
87.5°	0.0	0.0	8.7	12.6	14.8	10.5	11.7	9.1	41.3	24.3	4.8
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°	697.2	697.2	697.2	697.2	697.2	697.2	697.2	697.2	697.2	697.2	697.2
2.5°	700.7	693.7	681.6	670.2	660.3	650.3	644.2	635.5	634.7	634.7	636.8
5°	705.5	694.1	672.5	649.4	622.9	597.8	572.6	548.2	540.4	534.7	537.3
7.5°	719.3	701.5	667.3	623.4	573.0	517.8	479.2	437.5	421.4	412.7	414.0
10°	739.3	715.0	662.9	586.0	504.3	429.2	374.0	328.8	311.5	304.1	304.1
12.5°	761.5	731.5	655.1	539.6	429.2	339.3	285.4	264.6	262.0	262.0	262.0
15°	788.0	751.5	641.6	484.8	350.5	268.4	249.4	250.2	252.9	254.6	254.6
17.5°	815.4	772.8	620.3	423.5	281.1	241.5	242.0	243.2	245.5	247.1	247.1
20°	844.9	794.1	592.0	358.3	241.1	233.7	235.0	236.4	238.0	238.9	239.3
22.5°	876.6	814.1	558.6	294.5	227.7	227.2	227.7	228.9	231.1	231.1	232.0
25°	910.5	836.2	520.4	248.0	220.7	220.7	221.5	222.4	224.2	224.2	224.6
27.5°	945.3	856.6	480.0	223.8	214.6	214.1	214.1	215.5	216.4	216.8	217.2
30°	983.5	880.6	439.6	218.5	209.8	207.7	206.3	207.3	208.1	208.5	209.4
32.5°	1022.5	903.5	403.5	220.7	205.0	201.1	196.8	195.9	195.9	197.6	199.0
35°	1066.0	928.8	375.8	228.1	202.4	191.6	184.6	180.7	181.1	183.8	185.0
37.5°	1118.2	959.2	355.4	234.6	200.7	180.7	169.4	164.6	161.6	164.6	163.8
40°	1186.3	1003.9	340.6	239.7	198.5	168.1	152.9	145.1	139.4	141.1	140.3
42.5°	1286.7	1074.3	335.0	240.3	193.7	153.3	136.0	125.6	117.3	117.8	116.0
45°	1427.4	1185.5	364.0	234.6	183.3	137.2	118.2	104.2	99.0	97.8	96.0
47.5°	1620.3	1347.5	431.3	222.8	168.1	121.7	100.8	89.1	85.2	82.9	81.7
50°	1878.8	1555.6	506.0	209.8	152.9	106.9	86.4	79.0	76.5	74.3	73.8
52.5°	2178.5	1766.7	567.3	196.8	137.7	93.8	77.3	73.0	70.8	69.1	68.7
55°	2453.5	1912.2	563.9	182.9	122.9	83.4	70.8	68.2	65.6	63.9	63.0
57.5°	2624.6	1932.6	464.8	167.7	106.0	75.1	64.7	63.0	60.0	57.8	57.3
60°	2703.2	1816.2	325.8	147.7	89.1	67.3	58.2	57.3	53.4	50.4	49.5
62.5°	2717.6	1599.9	217.2	122.9	74.3	60.0	51.7	50.4	45.2	40.0	37.3
65°	2659.4	1290.6	150.3	96.0	63.4	52.2	44.3	41.7	36.1	30.9	29.1
67.5°	2475.2	906.2	104.7	69.1	53.9	41.3	35.2	34.3	29.9	25.6	24.3
70°	2137.7	516.5	69.9	51.7	42.5	28.2	27.8	28.7	24.3	20.8	19.1
72.5°	1639.0	236.4	43.5	37.8	29.1	19.1	22.1	22.5	18.7	15.7	13.9
75°	964.8	101.2	27.4	24.3	14.8	12.6	16.1	16.5	12.6	9.9	8.7
77.5°	328.4	38.2	17.4	14.3	7.4	7.0	10.5	10.5	7.0	3.9	3.1
80°	74.7	14.3	8.7	5.6	3.5	3.1	3.5	3.1	1.7	0.4	0.0
82.5°	21.3	5.6	3.5	2.2	1.3	1.3	0.4	0.0	0.0	0.0	0.0
85°	6.0	2.6	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	0.4	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)