

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: P881889

Luminaire Tested: **NAV-SB1C-730-U-T3**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881889
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-730-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7383 lumens
Efficiency: N/A
Efficacy: 135.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

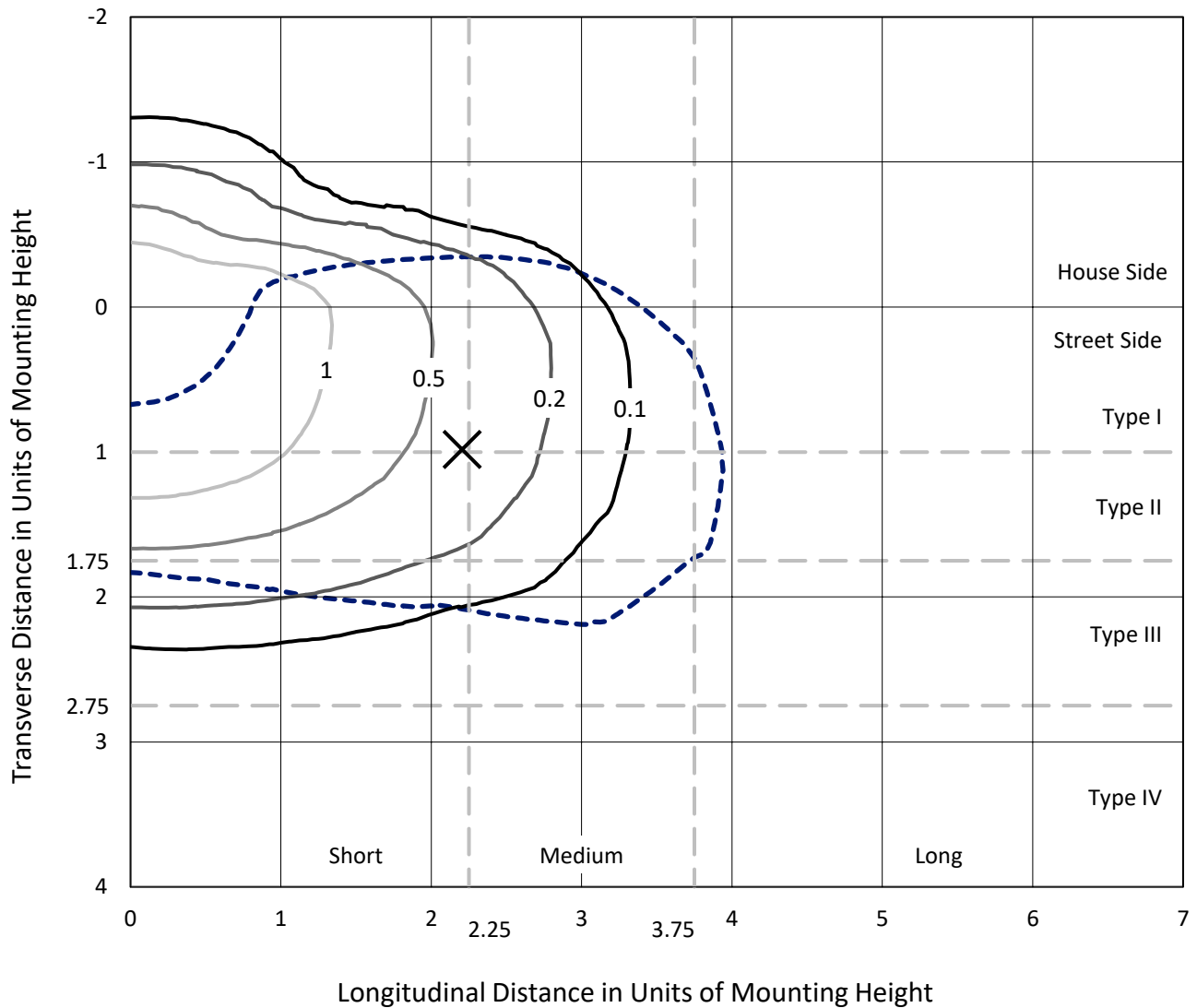
Input Watts (W): 54.4
Input Voltage (V): 120.0
Input Current (Ain): 0.437
Voltage Rise (V): NR
Power Factor: 0.993
Total Harmonic Distortion (THDi): 9.314
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

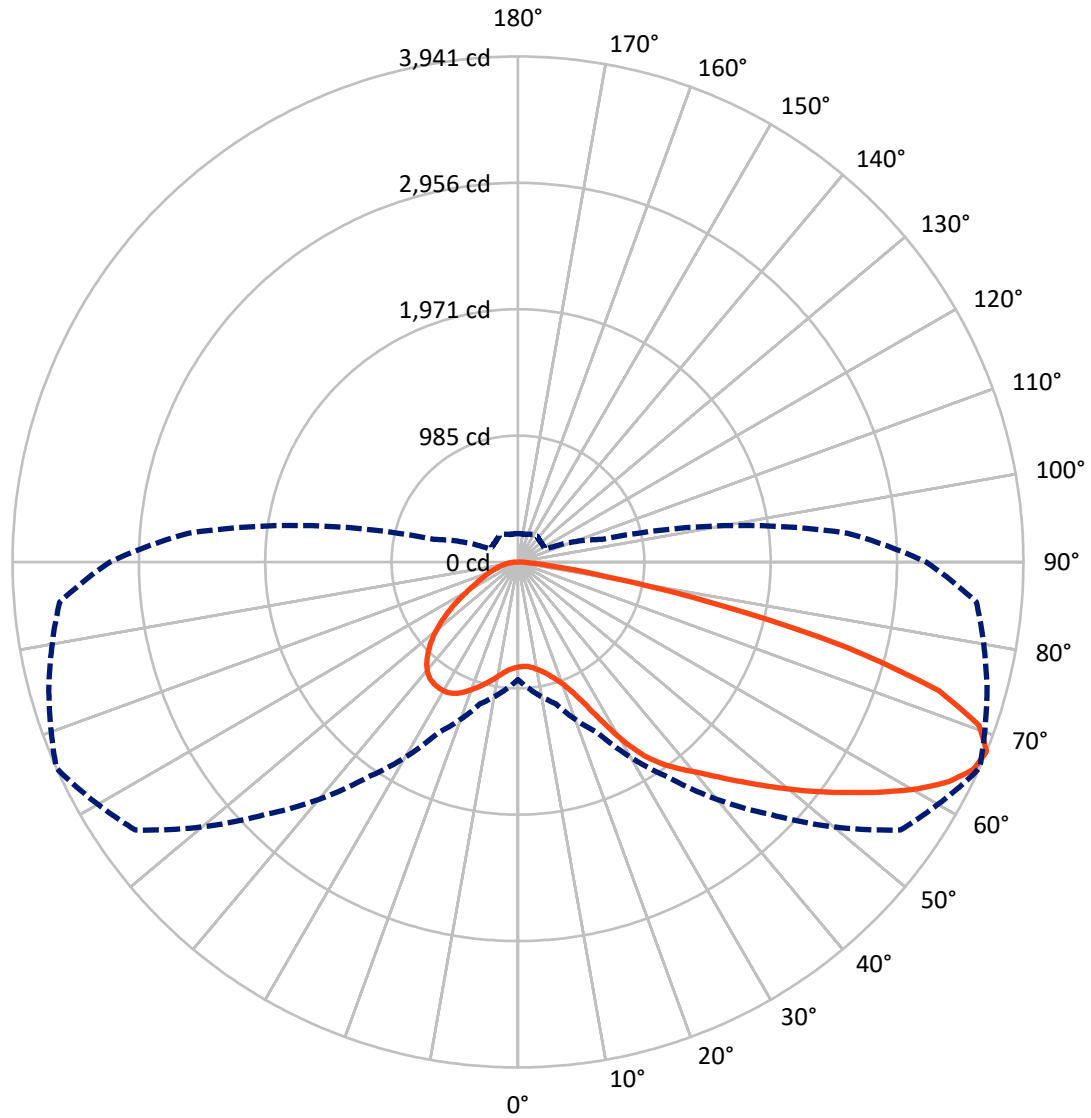
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1835.8	0.0	1835.8
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	5547.2	0.0	5547.2
	% Fixture	75.1	0.0	75.1
Total	Lumens	7383.0	0.0	7383.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.2	1.1
10°-20°	268.2	3.6
20°-30°	517.0	7.0
30°-40°	906.5	12.3
40°-50°	1347.7	18.3
50°-60°	1708.3	23.1
60°-70°	1671.5	22.6
70°-80°	797.3	10.8
80°-90°	85.2	1.2
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°	7383.0	100.0
0°-180°	7383.0	100.0

Coefficient of Utilization



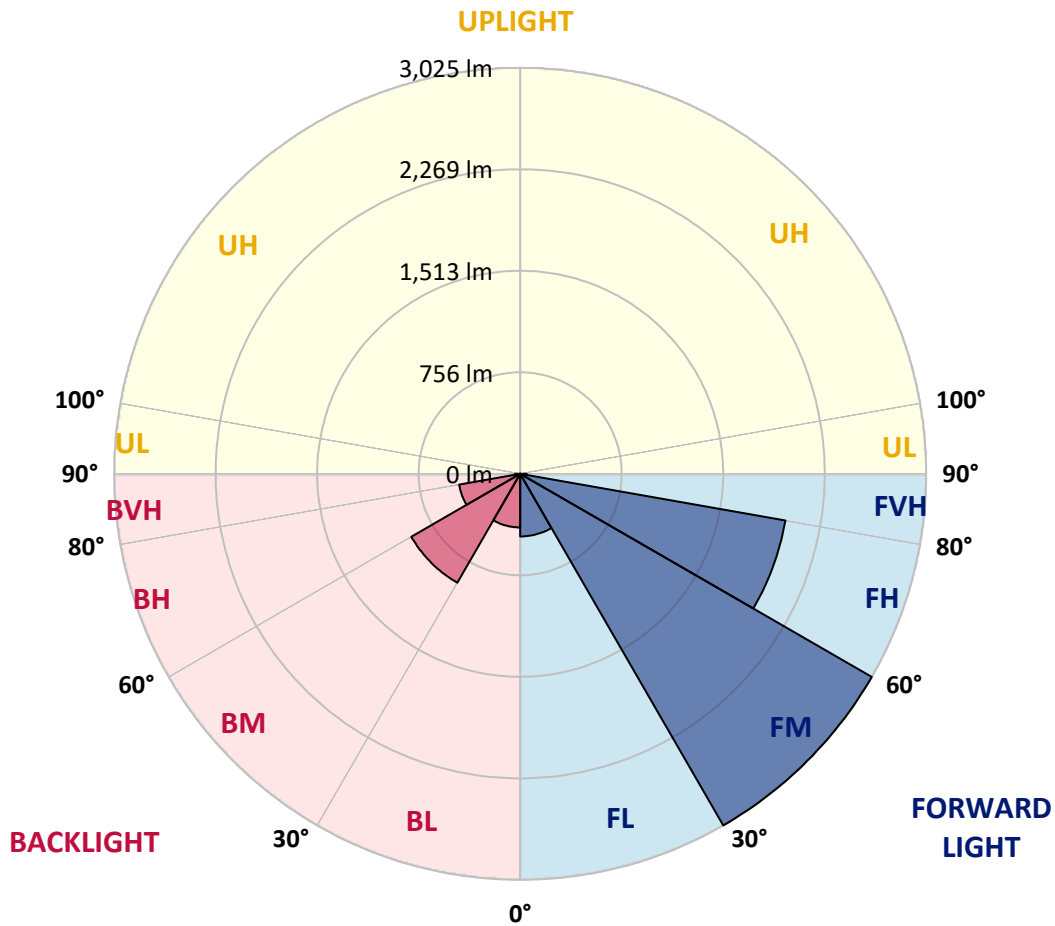
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	466.5	6.3			
FM (30°-60°)	3025.5	41.0			
FH (60°-80°)	2006.9	27.2			G2/5000
FVH (80°-90°)	48.3	0.7			G1/100
BL (0°-30°)	399.9	5.4	B1/500		
BM (30°-60°)	937.0	12.7	B1/1000		
BH (60°-80°)	462.0	6.3	B1/500		G1/500
BVH (80°-90°)	36.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	818.9	818.9	818.9	818.9	818.9	818.9	818.9	818.9	818.9	818.9	818.9
2.5°	810.3	815.0	813.8	811.9	811.5	812.3	813.4	814.6	814.2	816.2	819.3
5°	808.0	812.7	812.3	812.3	813.8	816.9	818.9	820.8	818.9	821.2	825.5
7.5°	809.6	813.1	814.6	816.2	820.0	825.9	830.5	834.8	832.4	835.2	840.6
10°	829.3	832.1	833.6	833.6	836.3	842.9	847.6	855.3	853.4	857.7	864.6
12.5°	865.4	868.1	868.1	866.6	868.5	872.8	874.3	882.9	879.4	886.4	893.4
15°	909.6	915.1	910.8	908.1	908.9	913.1	912.7	919.3	915.8	921.7	927.9
17.5°	958.5	965.5	958.5	958.1	956.6	961.2	961.6	967.4	961.2	965.5	969.8
20°	1016.3	1026.0	1020.2	1022.1	1018.6	1020.6	1022.5	1031.1	1021.4	1024.5	1023.3
22.5°	1097.8	1109.4	1103.2	1110.6	1108.3	1106.7	1106.3	1121.4	1106.3	1107.5	1096.2
25°	1216.5	1230.4	1219.6	1229.7	1229.7	1234.7	1240.5	1259.9	1234.7	1227.3	1198.2
27.5°	1391.8	1405.8	1384.4	1390.6	1388.7	1401.1	1394.9	1443.0	1415.9	1403.8	1345.3
30°	1602.8	1627.7	1587.3	1585.8	1583.8	1603.6	1612.5	1644.3	1616.8	1604.8	1534.2
32.5°	1830.9	1856.9	1808.8	1794.8	1787.5	1799.5	1792.1	1817.7	1798.7	1780.1	1692.8
35°	2072.2	2097.8	2052.0	2024.9	1995.4	1970.2	1943.8	1950.4	1932.6	1904.2	1813.9
37.5°	2300.3	2347.2	2298.7	2269.6	2215.3	2166.1	2092.4	2061.7	2045.0	2019.1	1927.9
40°	2532.6	2559.4	2522.6	2497.7	2438.8	2361.6	2243.7	2178.9	2156.4	2131.2	2054.0
42.5°	2703.7	2729.3	2709.5	2692.5	2646.3	2556.7	2404.2	2323.2	2290.6	2262.3	2196.7
45°	2839.5	2858.5	2846.1	2852.3	2832.5	2745.6	2570.7	2478.0	2444.2	2409.7	2358.1
47.5°	2894.2	2914.3	2934.1	2971.0	3004.7	2940.7	2749.5	2645.5	2609.8	2574.5	2523.7
50°	2888.0	2908.5	2965.9	3044.3	3149.0	3127.7	2938.0	2824.0	2791.0	2750.7	2703.7
52.5°	2838.3	2861.6	2935.3	3065.6	3232.4	3267.7	3130.0	3008.2	2977.2	2929.1	2882.2
55°	2708.0	2721.9	2832.5	3017.1	3252.2	3365.5	3318.2	3204.5	3173.5	3106.4	3055.2
57.5°	2466.3	2486.5	2647.5	2886.4	3202.6	3431.8	3483.4	3410.9	3381.0	3284.4	3230.9
60°	2150.9	2183.1	2367.4	2666.9	3076.1	3431.4	3633.5	3613.7	3588.9	3459.7	3403.9
62.5°	1794.1	1831.3	2008.6	2356.5	2855.0	3334.1	3727.4	3783.6	3770.8	3621.5	3550.1
65°	1377.8	1403.4	1579.9	1955.1	2510.9	3125.0	3738.3	3899.6	3902.0	3744.5	3626.5
67.5°	917.4	991.1	1144.3	1467.1	2050.1	2783.2	3642.8	3918.6	3941.1	3786.8	3588.1
70°	447.6	544.6	694.7	953.5	1467.1	2259.2	3393.4	3762.7	3812.7	3663.4	3359.3
72.5°	185.8	217.2	299.1	470.5	842.1	1524.5	2892.2	3339.9	3432.6	3246.0	2824.4
75°	125.3	135.8	171.1	241.3	383.6	751.8	2085.8	2490.4	2639.7	2451.6	2003.9
77.5°	96.6	103.2	124.5	168.7	228.1	284.3	1116.4	1500.8	1578.0	1460.9	1042.7
80°	76.0	81.1	93.1	123.0	161.8	152.1	380.5	680.0	724.6	607.9	335.2
82.5°	65.9	67.9	66.7	83.4	107.5	88.8	124.9	251.0	277.0	200.9	109.4
85°	47.7	53.1	55.5	51.6	57.0	45.0	51.2	88.8	97.8	87.3	61.7
87.5°	19.4	28.7	35.3	33.4	20.9	12.8	15.9	26.0	29.9	32.6	20.2
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°	818.9	818.9	818.9	818.9	818.9	818.9	818.9	818.9	818.9	818.9	818.9
2.5°	819.6	822.4	824.3	826.6	828.2	830.5	835.2	837.9	838.3	840.2	839.8
5°	827.0	830.9	835.2	841.4	848.4	854.2	863.1	869.3	871.6	873.6	873.2
7.5°	842.9	848.4	856.1	867.0	877.1	884.8	895.7	903.0	910.4	913.1	913.5
10°	866.6	874.3	885.6	900.3	911.2	921.3	932.5	938.7	946.1	949.2	950.8
12.5°	896.1	904.2	919.0	939.5	949.6	956.6	960.5	958.9	960.5	963.2	963.9
15°	929.8	938.7	955.4	977.5	984.5	978.3	969.8	962.0	960.8	961.6	964.3
17.5°	969.8	976.4	995.8	1014.4	1009.3	983.7	965.1	952.7	946.5	944.6	947.3
20°	1025.6	1025.6	1041.5	1053.2	1019.4	976.0	946.9	926.7	913.9	908.5	907.3
22.5°	1093.5	1087.3	1097.4	1089.2	1017.5	954.3	913.9	879.0	859.6	851.8	850.7
25°	1179.6	1172.3	1169.5	1119.1	1003.5	919.7	854.2	811.9	794.8	790.6	791.3
27.5°	1309.6	1291.0	1255.7	1135.4	977.9	865.4	784.3	745.2	735.5	735.9	737.0
30°	1482.6	1445.3	1358.8	1138.1	936.0	788.6	713.0	685.0	680.4	682.3	688.9
32.5°	1642.8	1607.5	1464.3	1125.7	871.6	713.4	649.0	630.3	623.4	625.7	628.8
35°	1768.5	1758.8	1562.1	1108.3	792.5	642.8	591.6	575.7	562.1	559.0	561.3
37.5°	1887.2	1883.3	1635.4	1083.8	714.1	592.7	545.4	524.5	504.7	493.8	494.2
40°	2017.5	2013.6	1683.5	1046.2	644.7	549.3	503.9	476.4	451.9	432.1	434.1
42.5°	2164.1	2141.2	1706.4	992.3	585.7	512.4	470.1	432.9	400.7	382.5	383.6
45°	2324.3	2272.7	1706.0	923.6	536.1	478.7	434.1	381.3	351.4	334.4	333.6
47.5°	2494.2	2398.4	1685.1	847.6	488.0	441.4	378.2	337.9	318.1	307.6	305.3
50°	2669.6	2516.0	1649.4	760.3	438.7	399.2	343.3	315.8	300.6	290.9	287.4
52.5°	2834.4	2622.6	1606.3	661.4	388.7	358.0	327.8	306.4	290.5	279.7	275.0
55°	2987.7	2714.6	1545.4	560.1	348.0	330.5	320.4	302.6	284.3	271.5	266.5
57.5°	3123.8	2774.3	1440.3	465.1	318.9	311.5	312.7	296.0	275.0	264.2	257.2
60°	3237.1	2818.1	1284.7	377.0	295.2	292.9	300.6	283.6	259.1	246.7	241.3
62.5°	3305.0	2817.4	1093.9	308.8	275.0	275.8	284.7	268.0	243.2	231.6	228.1
65°	3299.2	2748.3	884.4	264.2	255.6	256.4	268.0	251.0	230.0	223.0	222.7
67.5°	3182.4	2580.0	678.4	235.1	234.3	237.8	251.4	239.3	221.9	221.1	222.3
70°	2866.2	2230.5	488.8	211.8	212.2	217.2	235.1	232.0	217.6	219.2	218.8
72.5°	2298.4	1700.6	328.2	187.4	187.7	195.9	219.6	226.1	213.3	233.9	237.0
75°	1530.7	1060.5	211.0	161.4	161.8	172.2	206.0	214.9	201.7	233.1	235.1
77.5°	735.5	476.7	152.8	135.8	135.8	145.5	178.0	192.4	171.8	181.2	166.0
80°	254.1	179.2	120.3	109.4	107.1	113.7	150.1	166.8	148.2	136.5	128.0
82.5°	100.1	93.1	96.6	85.0	77.2	81.5	116.8	137.7	109.0	98.5	98.1
85°	57.4	60.5	68.3	56.2	44.6	50.0	85.7	98.9	82.2	72.5	74.1
87.5°	15.5	21.3	31.4	29.1	20.2	21.3	40.7	54.7	47.3	36.5	37.6
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)