

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: P960795

Luminaire Tested: **NAV-SB1D-722-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960795
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1D-722-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6526.2 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

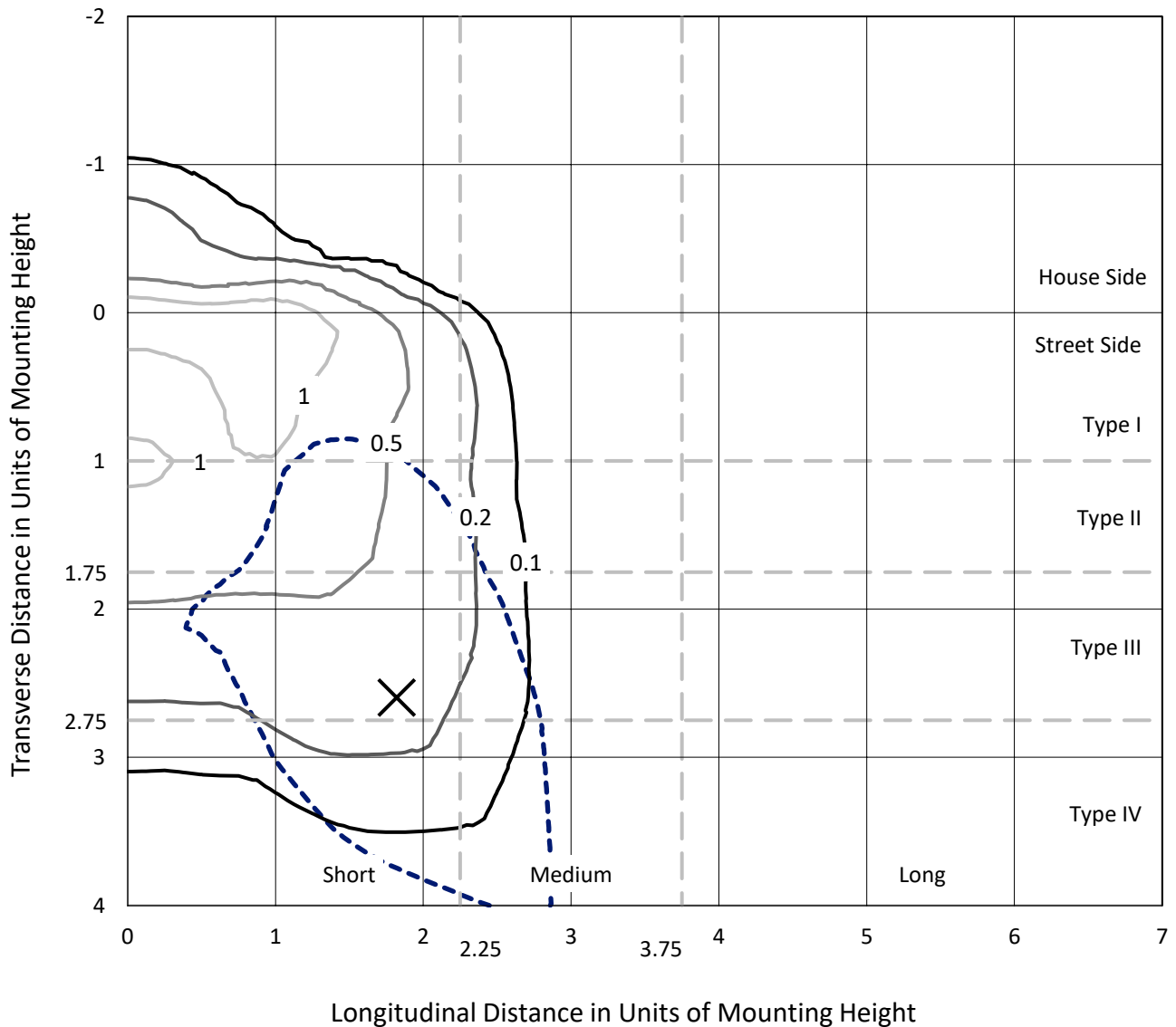
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

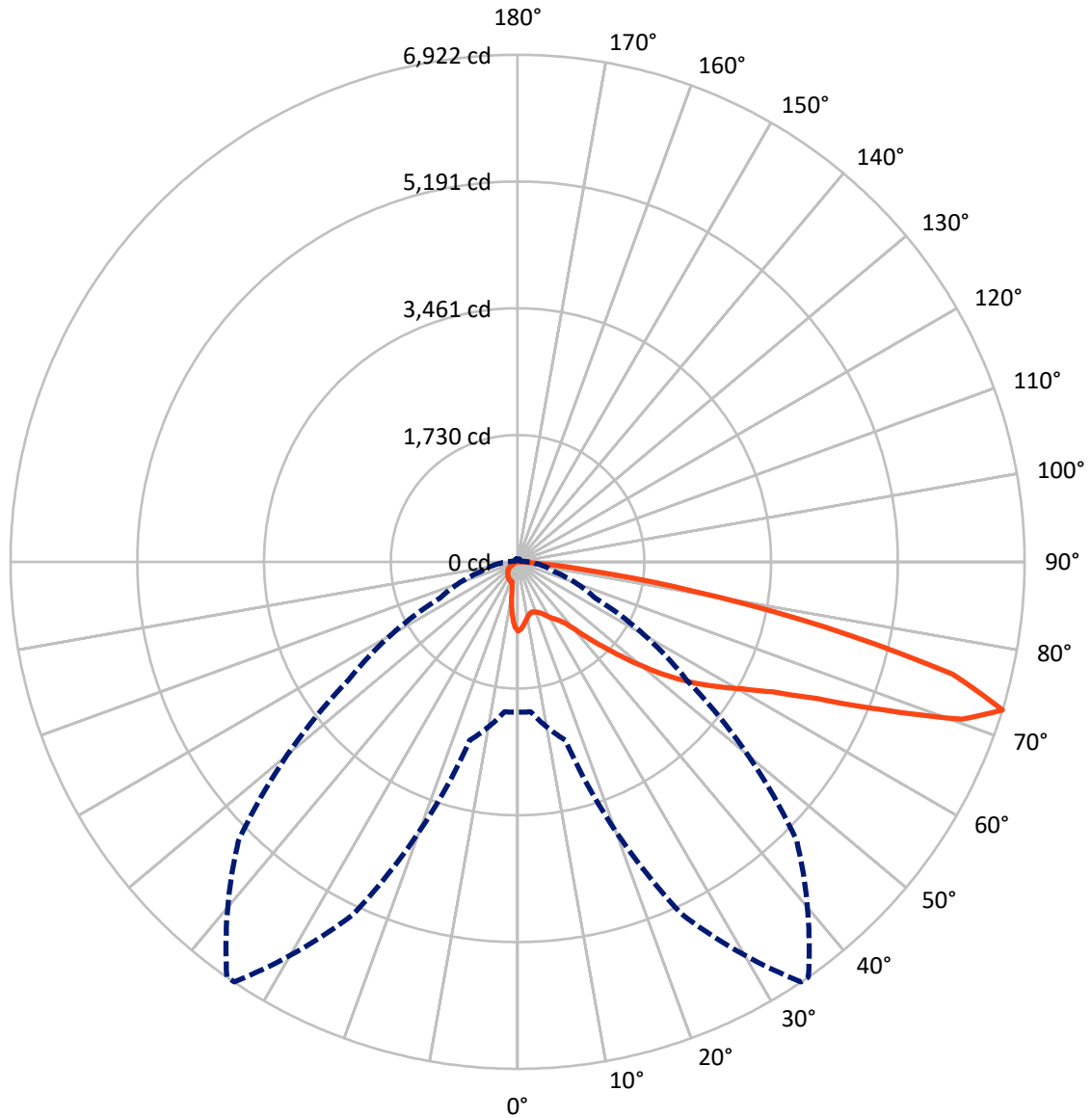
× Max cd
 - - - 1/2 Max cd



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



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	734.5	0.0	734.5
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	5791.7	0.0	5791.7
	% Fixture	88.7	0.0	88.7
Total	Lumens	6526.2	0.0	6526.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.7	1.2
10°-20°	181.8	2.8
20°-30°	295.4	4.5
30°-40°	492.8	7.6
40°-50°	932.4	14.3
50°-60°	1481.6	22.7
60°-70°	1832.9	28.1
70°-80°	1139.3	17.5
80°-90°	92.1	1.4
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°	6526.2	100.0
0°-180°	6526.2	100.0

Coefficient of Utilization



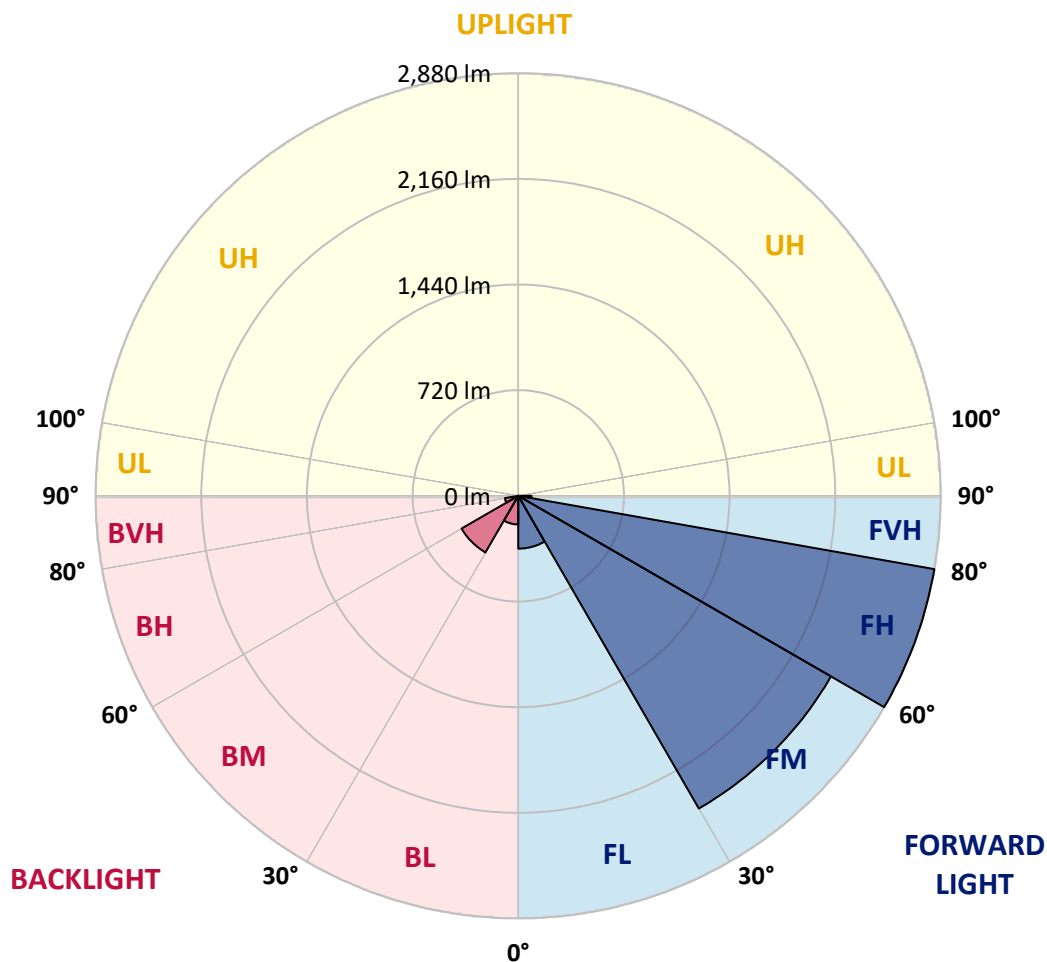
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	359.8	5.5			
FM (30°-60°)	2461.0	37.7			
FH (60°-80°)	2880.1	44.1			G2/5000
FVH (80°-90°)	90.8	1.4			G1/100
BL (0°-30°)	195.2	3.0	B1/500		
BM (30°-60°)	445.9	6.8	B1/1000		
BH (60°-80°)	92.2	1.4	B0/110		G0/110
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	945.9	945.9	945.9	945.9	945.9	945.9	945.9	945.9	945.9	945.9	945.9
2.5°	903.7	911.4	912.9	915.2	915.2	918.1	922.9	929.6	940.6	946.4	950.2
5°	833.0	838.8	845.9	851.7	862.6	864.1	882.7	900.9	926.3	945.4	958.8
7.5°	761.8	768.4	778.0	791.9	806.3	810.6	838.8	869.3	909.5	945.4	967.9
10°	711.6	712.1	720.7	734.5	757.5	762.7	797.1	840.7	890.8	939.6	976.4
12.5°	683.4	686.6	690.5	701.0	723.0	726.4	763.2	814.4	872.2	936.3	986.5
15°	683.4	685.7	688.1	693.4	711.0	713.9	746.4	797.7	862.6	937.8	1002.8
17.5°	690.5	694.3	692.4	698.6	717.3	719.2	747.8	792.8	862.1	946.8	1027.7
20°	707.8	710.6	706.7	710.6	729.3	733.1	762.7	802.0	870.3	962.6	1058.7
22.5°	735.0	736.5	727.3	730.2	749.3	754.1	788.5	827.8	889.9	987.9	1100.3
25°	769.4	772.2	758.4	761.8	779.9	785.7	825.3	866.4	921.0	1022.8	1153.4
27.5°	809.1	810.6	798.6	798.1	821.5	829.6	869.8	914.3	962.6	1066.8	1220.4
30°	854.5	858.8	847.4	845.4	875.0	881.8	921.5	973.1	1023.8	1132.8	1315.5
32.5°	890.4	893.7	887.0	891.9	922.0	927.2	984.1	1056.4	1119.9	1226.5	1445.0
35°	942.1	943.9	928.6	937.3	971.7	985.0	1069.7	1173.0	1240.9	1344.2	1614.4
37.5°	1129.0	1129.0	1063.9	1021.4	1054.4	1066.4	1186.8	1319.8	1390.1	1502.0	1827.7
40°	1387.7	1383.4	1288.2	1201.2	1196.9	1220.4	1353.7	1504.9	1582.8	1691.4	2067.7
42.5°	1663.6	1656.9	1527.4	1441.3	1426.9	1435.0	1546.5	1733.0	1812.3	1922.3	2325.9
45°	1908.4	1906.5	1787.9	1672.2	1646.5	1672.2	1787.0	1999.8	2056.7	2172.4	2583.6
47.5°	2113.7	2113.7	2027.0	1951.5	1938.1	1953.4	2112.6	2295.8	2290.6	2438.8	2834.7
50°	2349.8	2348.0	2265.7	2233.2	2247.0	2268.5	2487.6	2607.6	2532.5	2700.4	3059.0
52.5°	2515.2	2526.7	2498.5	2493.3	2564.0	2601.3	2868.2	2912.6	2749.2	2948.5	3226.8
55°	2646.3	2659.7	2692.3	2729.1	2865.3	2914.1	3236.8	3202.0	2930.4	3163.7	3323.5
57.5°	2831.9	2812.7	2862.9	2935.6	3156.1	3214.9	3594.1	3475.1	3076.2	3338.2	3333.9
60°	3057.1	3059.9	3068.5	3160.4	3446.4	3521.9	3946.0	3733.3	3169.9	3445.3	3217.3
62.5°	3327.8	3332.1	3349.7	3490.8	3836.1	3907.3	4320.9	3944.6	3213.0	3415.2	2916.0
65°	3309.1	3327.3	3524.8	4007.2	4428.5	4498.8	4758.5	4092.8	3148.0	3139.8	2374.2
67.5°	3014.5	3044.1	3374.6	4624.1	5321.8	5400.2	5287.4	4122.0	2867.2	2441.7	1548.9
70°	2628.1	2638.7	3036.0	5178.8	6356.1	6435.5	5760.8	3801.1	2175.8	1361.9	693.8
72.5°	2052.4	2054.8	2521.0	5307.4	6917.5	6921.8	5389.2	2821.8	1170.1	523.2	241.0
75°	1466.2	1451.8	1688.5	4304.2	6085.9	6134.7	4040.2	1323.6	447.1	247.2	120.0
77.5°	786.2	802.0	955.4	2552.6	4204.2	4287.5	2204.5	381.6	227.7	168.3	79.3
80°	242.9	256.4	391.7	1168.7	2381.4	2431.6	817.2	169.7	158.8	120.0	52.2
82.5°	76.5	79.3	182.7	491.1	988.4	1011.4	236.7	96.1	108.5	79.3	30.6
85°	22.0	22.4	81.3	183.2	244.4	249.2	66.4	37.3	62.1	49.3	15.8
87.5°	2.4	7.7	30.6	30.6	21.5	21.0	7.2	8.1	17.7	6.3	2.9
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°	945.9	945.9	945.9	945.9	945.9	945.9	945.9	945.9	945.9	945.9	945.9
2.5°	947.8	948.2	942.1	931.5	920.0	910.5	898.5	889.0	882.2	880.4	883.7
5°	954.5	951.1	933.5	901.4	863.2	830.1	793.3	764.1	745.1	736.9	739.7
7.5°	964.5	955.0	916.2	853.1	779.9	714.9	648.9	597.8	565.2	549.0	551.3
10°	973.1	954.0	887.5	783.3	671.4	572.9	483.9	422.2	387.9	371.6	372.1
12.5°	981.2	953.6	850.2	700.6	549.0	428.4	345.7	315.1	305.6	302.2	301.2
15°	996.5	955.0	803.4	605.9	427.0	323.7	293.6	293.2	295.0	294.1	293.6
17.5°	1017.6	956.4	750.3	505.4	329.4	285.5	284.0	288.3	291.2	289.8	289.3
20°	1044.9	962.2	693.8	406.0	283.1	275.9	279.3	283.1	285.5	283.1	282.6
22.5°	1083.1	972.2	632.1	326.2	268.2	270.2	273.1	277.4	279.7	276.4	275.9
25°	1130.0	987.9	571.4	283.6	261.1	263.5	267.8	272.5	275.4	272.1	271.6
27.5°	1190.7	1013.3	515.5	274.0	253.9	255.3	261.6	268.8	272.5	268.2	268.2
30°	1278.7	1054.9	467.2	278.3	249.6	246.3	254.9	265.0	269.3	265.4	265.0
32.5°	1395.3	1113.7	437.6	285.1	247.7	235.7	243.8	256.8	263.9	261.6	261.6
35°	1548.4	1203.1	426.1	292.6	246.3	224.8	230.5	244.4	256.8	259.2	259.2
37.5°	1733.9	1327.5	429.4	296.0	242.0	215.7	218.5	230.5	246.7	254.4	256.4
40°	1944.8	1472.3	448.5	292.6	237.2	208.0	208.5	217.6	232.0	243.4	247.2
42.5°	2162.3	1641.6	483.9	280.2	232.9	201.3	199.9	206.1	215.7	223.8	227.1
45°	2369.4	1815.7	518.9	263.0	227.7	194.6	191.3	193.6	195.6	199.0	200.8
47.5°	2550.2	1938.1	508.8	247.2	220.5	187.0	181.2	180.3	174.6	174.0	173.5
50°	2675.0	1964.9	451.9	231.4	209.9	178.4	169.3	163.6	153.5	148.7	149.2
52.5°	2714.7	1859.2	369.2	215.7	192.7	166.9	154.0	144.9	132.4	128.1	127.7
55°	2662.1	1652.2	295.0	196.5	168.8	151.6	137.2	125.3	115.2	110.0	110.0
57.5°	2533.5	1388.7	233.4	174.0	143.5	134.4	120.0	108.0	99.4	94.2	93.3
60°	2320.2	1102.7	184.6	147.3	122.4	115.7	100.9	93.3	85.6	79.3	77.9
62.5°	1996.5	787.1	144.9	116.6	102.3	94.7	86.1	80.4	71.2	62.6	61.2
65°	1557.9	481.5	111.9	85.6	82.2	78.4	73.2	67.9	56.9	48.3	46.8
67.5°	982.7	228.1	79.8	64.6	65.0	63.1	60.7	56.5	48.3	40.7	39.7
70°	432.8	110.5	52.6	49.3	48.3	48.3	50.2	48.8	41.1	33.9	32.5
72.5°	147.3	59.2	39.3	37.3	35.0	34.4	42.1	40.7	33.0	26.3	24.9
75°	77.0	39.7	28.7	26.8	21.0	25.3	33.5	31.6	23.5	17.2	15.8
77.5°	50.2	28.2	19.6	17.2	12.0	16.7	24.9	22.0	13.8	8.6	7.7
80°	31.6	18.7	11.5	8.1	5.7	9.1	13.4	9.5	5.2	1.9	1.4
82.5°	16.7	9.5	4.3	2.9	2.4	2.9	3.4	2.4	0.9	0.0	0.0
85°	6.7	3.4	1.4	0.9	0.5	0.0	0.9	0.5	0.0	0.0	0.0
87.5°	2.4	0.5	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)