

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: P968700

Luminaire Tested: **NAV-SB5C-722-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968700
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-SB5C-722-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24253.6 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

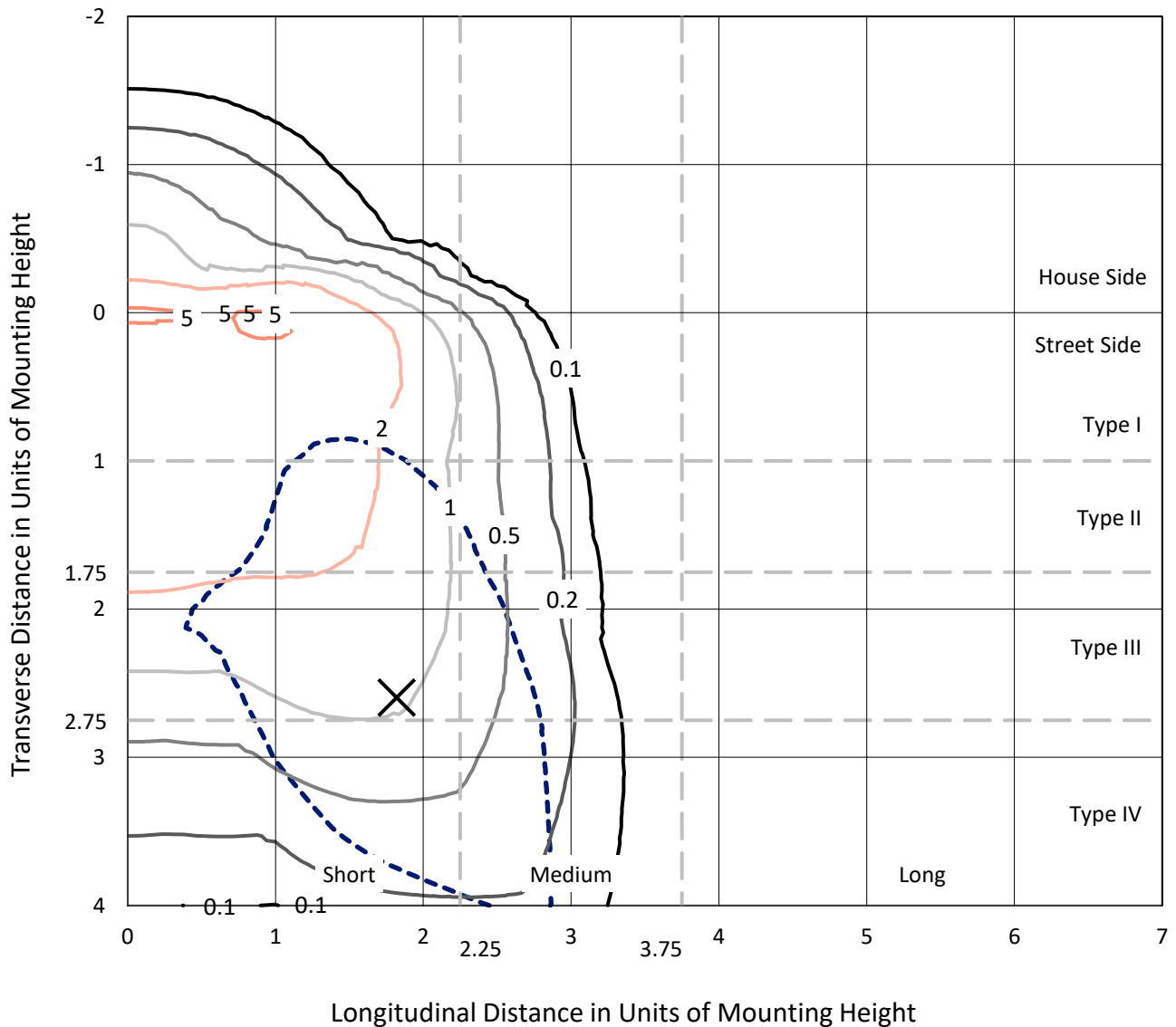
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P968700
 CATALOG NUMBER: NAV-SB5C-722-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

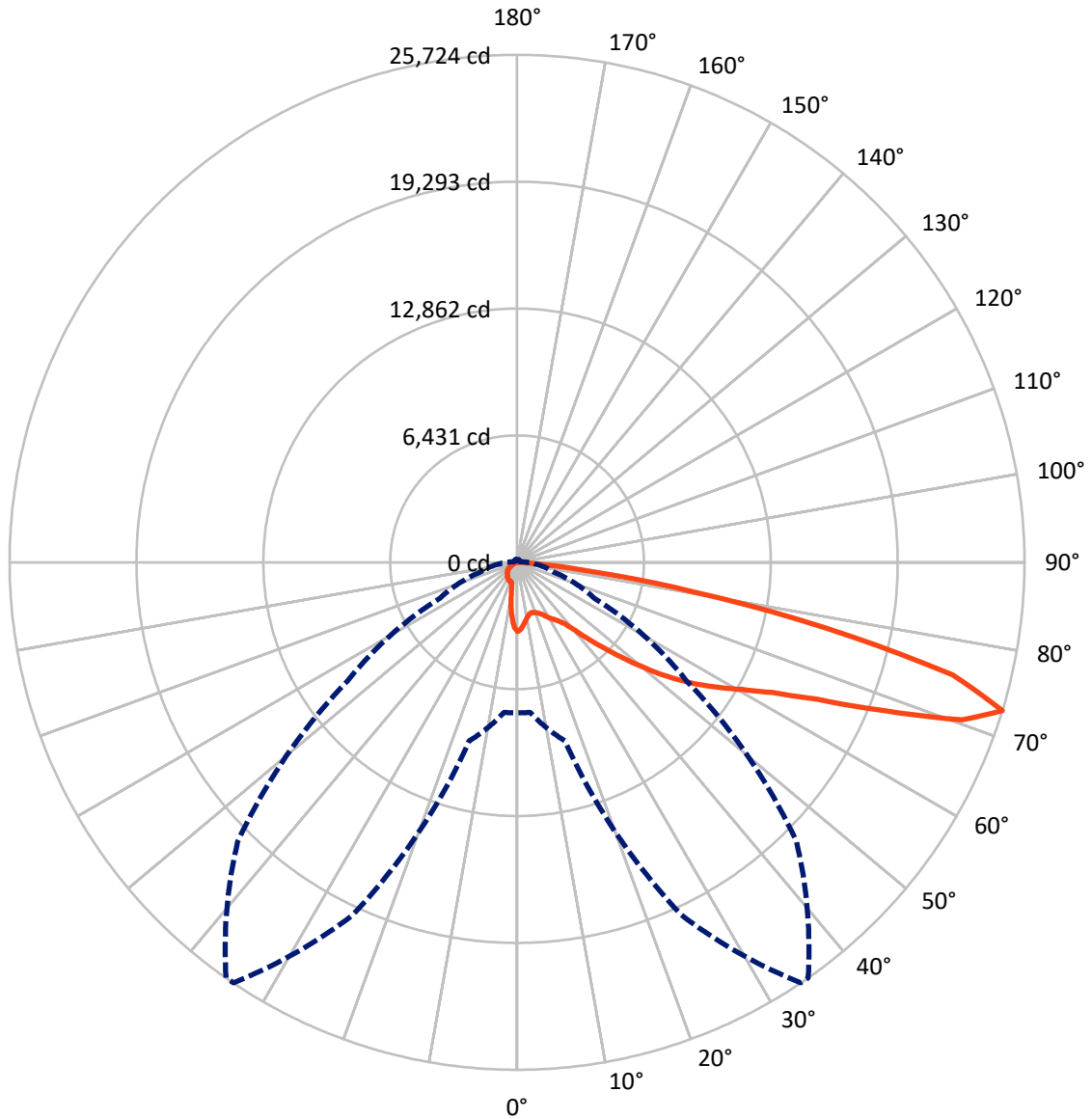
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P968700
CATALOG NUMBER: NAV-SB5C-722-U-T4FT-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P968700
 CATALOG NUMBER: NAV-SB5C-722-U-T4FT-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2729.6	0.0	2729.6
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	21523.9	0.0	21523.9
	% Fixture	88.7	0.0	88.7
Total	Lumens	24253.6	0.0	24253.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.9	1.2
10°-20°	675.7	2.8
20°-30°	1097.7	4.5
30°-40°	1831.5	7.6
40°-50°	3465.3	14.3
50°-60°	5506.3	22.7
60°-70°	6811.7	28.1
70°-80°	4234.2	17.5
80°-90°	342.2	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°	24253.6	100.0
0°-180°	24253.6	100.0

Coefficient of Utilization



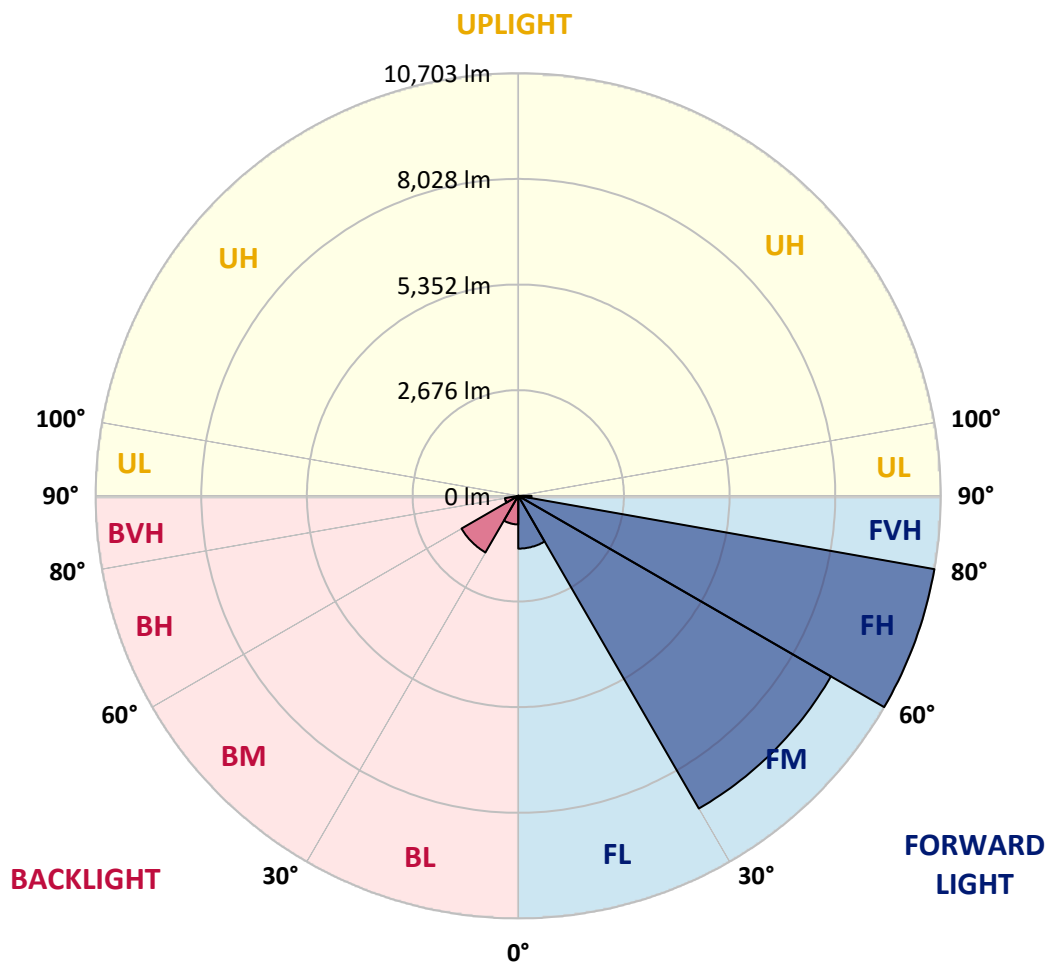
REPORT NUMBER: P968700
 CATALOG NUMBER: NAV-SB5C-722-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1337.0	5.5			
FM (30°-60°)	9146.0	37.7			
FH (60°-80°)	10703.4	44.1			G4/12000
FVH (80°-90°)	337.5	1.4			G3/500
BL (0°-30°)	725.3	3.0	B2/1000		
BM (30°-60°)	1657.1	6.8	B2/2500		
BH (60°-80°)	342.5	1.4	B1/500		G1/500
BVH (80°-90°)	4.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



REPORT NUMBER: P968700
 CATALOG NUMBER: NAV-SB5C-722-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3515.1	3515.1	3515.1	3515.1	3515.1	3515.1	3515.1	3515.1	3515.1	3515.1	3515.1
2.5°	3358.7	3387.2	3392.5	3401.5	3401.5	3412.1	3429.9	3454.8	3495.6	3517.0	3531.1
5°	3095.7	3117.1	3143.8	3165.1	3205.9	3211.2	3280.6	3348.1	3442.3	3513.4	3563.1
7.5°	2830.9	2855.9	2891.4	2942.9	2996.3	3012.3	3117.1	3230.8	3380.0	3513.4	3596.9
10°	2644.4	2646.1	2678.1	2729.7	2815.0	2834.5	2962.5	3124.2	3310.7	3492.1	3628.9
12.5°	2539.5	2551.9	2566.2	2605.2	2687.0	2699.4	2836.3	3026.4	3241.5	3479.6	3666.2
15°	2539.5	2548.4	2557.3	2576.8	2642.6	2653.2	2774.1	2964.2	3205.9	3484.9	3726.6
17.5°	2566.2	2580.3	2573.3	2596.4	2665.7	2672.8	2779.4	2946.5	3204.1	3518.7	3819.0
20°	2630.1	2640.8	2626.6	2640.8	2710.1	2724.3	2834.5	2980.2	3234.4	3577.4	3934.6
22.5°	2731.4	2736.7	2703.0	2713.7	2784.7	2802.6	2930.5	3076.2	3307.3	3671.6	4089.1
25°	2859.4	2870.1	2818.5	2830.9	2898.5	2919.8	3067.3	3220.1	3422.8	3801.3	4286.4
27.5°	3006.9	3012.3	2967.8	2966.0	3053.1	3083.3	3232.5	3397.9	3577.4	3964.8	4535.2
30°	3175.8	3191.7	3149.1	3141.9	3252.1	3277.0	3424.5	3616.4	3804.8	4210.0	4888.8
32.5°	3309.0	3321.4	3296.6	3314.3	3426.3	3445.8	3657.3	3925.6	4162.0	4558.3	5370.5
35°	3500.9	3508.1	3451.2	3483.2	3611.1	3660.9	3975.5	4359.3	4611.7	4995.5	5999.5
37.5°	4195.8	4195.8	3954.1	3796.0	3918.6	3963.0	4410.8	4904.8	5166.1	5581.9	6792.2
40°	5157.2	5141.2	4787.6	4464.2	4448.2	4535.2	5031.0	5592.6	5882.3	6285.7	7684.3
42.5°	6182.6	6157.7	5676.1	5356.2	5302.9	5333.2	5747.2	6440.3	6735.3	7144.0	8643.9
45°	7092.5	7085.4	6644.7	6214.6	6118.6	6214.6	6641.1	7432.0	7643.4	8073.5	9601.8
47.5°	7854.9	7854.9	7533.2	7252.5	7202.7	7259.6	7851.3	8532.0	8512.4	9063.4	10534.7
50°	8732.8	8725.7	8420.1	8299.2	8350.7	8430.7	9244.6	9690.7	9411.7	10035.5	11368.3
52.5°	9347.7	9390.3	9285.5	9265.9	9528.9	9667.6	10659.2	10824.5	10216.7	10957.8	11992.0
55°	9834.6	9884.4	10005.2	10142.1	10648.5	10829.8	12029.4	11899.6	10890.2	11757.5	12351.0
57.5°	10524.1	10453.1	10639.6	10909.8	11729.0	11947.6	13356.9	12914.4	11432.2	12406.1	12390.1
60°	11361.2	11371.9	11403.8	11745.1	12807.8	13088.5	14664.9	13874.0	11780.5	12804.2	11956.5
62.5°	12367.0	12383.0	12448.7	12973.0	14256.1	14520.9	16058.1	14659.6	11940.5	12692.3	10836.9
65°	12297.7	12365.2	13099.2	14892.3	16457.9	16719.2	17684.1	15210.4	11698.8	11668.6	8823.4
67.5°	11203.0	11313.1	12541.2	17184.8	19777.6	20069.1	19649.7	15318.8	10655.6	9074.0	5756.1
70°	9767.1	9806.2	11283.0	19246.2	23621.5	23916.5	21409.0	14126.3	8085.9	5061.2	2578.6
72.5°	7627.4	7636.4	9369.0	19724.3	25707.9	25723.9	20028.2	10486.8	4348.7	1944.2	895.6
75°	5448.7	5395.4	6275.0	15995.9	22617.4	22798.8	15014.9	4919.1	1661.6	918.8	446.1
77.5°	2921.6	2980.2	3550.7	9486.3	15624.5	15933.7	8192.5	1418.2	845.9	625.6	295.0
80°	902.8	952.5	1455.5	4343.3	8850.1	9036.7	3037.1	630.9	590.0	446.1	193.7
82.5°	284.3	295.0	678.9	1825.1	3673.3	3758.6	879.7	357.2	403.4	295.0	113.8
85°	81.8	83.5	302.1	680.6	908.2	925.9	247.0	138.6	231.0	183.1	58.6
87.5°	8.9	28.4	113.8	113.8	79.9	78.2	26.6	30.2	65.7	23.1	10.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P968700
 CATALOG NUMBER: NAV-SB5C-722-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3515.1	3515.1	3515.1	3515.1	3515.1	3515.1	3515.1	3515.1	3515.1	3515.1	3515.1
2.5°	3522.3	3524.1	3500.9	3461.8	3419.2	3383.6	3339.2	3303.7	3278.8	3271.7	3284.1
5°	3547.1	3534.7	3468.9	3349.9	3207.7	3085.0	2948.2	2839.9	2768.7	2738.6	2749.3
7.5°	3584.4	3549.0	3404.9	3170.4	2898.5	2656.8	2411.5	2221.4	2100.5	2040.2	2049.0
10°	3616.4	3545.4	3298.3	2910.9	2495.1	2129.0	1798.5	1569.2	1441.3	1380.8	1382.6
12.5°	3646.6	3543.6	3159.8	2603.5	2040.2	1592.3	1284.8	1171.2	1135.6	1123.1	1119.6
15°	3703.5	3549.0	2985.6	2251.6	1587.0	1203.1	1091.1	1089.4	1096.4	1093.0	1091.1
17.5°	3781.7	3554.3	2788.3	1878.4	1224.5	1061.0	1055.6	1071.6	1082.3	1077.0	1075.1
20°	3883.0	3575.6	2578.6	1508.8	1052.1	1025.4	1037.8	1052.1	1061.0	1052.1	1050.3
22.5°	4025.2	3612.9	2349.4	1212.0	997.0	1004.1	1014.7	1030.7	1039.7	1027.2	1025.4
25°	4199.3	3671.6	2123.7	1053.8	970.3	979.2	995.2	1013.0	1023.7	1011.2	1009.4
27.5°	4425.0	3765.7	1915.7	1018.3	943.6	948.9	972.1	998.8	1013.0	997.0	997.0
30°	4752.0	3920.3	1736.2	1034.3	927.6	915.2	947.2	984.5	1000.5	986.3	984.5
32.5°	5185.7	4139.0	1626.1	1059.1	920.6	876.2	906.3	954.3	980.9	972.1	972.1
35°	5754.3	4471.3	1583.4	1087.6	915.2	835.3	856.6	908.2	954.3	963.2	963.2
37.5°	6443.9	4933.3	1595.8	1100.0	899.2	801.4	812.1	856.6	917.0	945.5	952.5
40°	7227.6	5471.8	1667.0	1087.6	881.5	773.1	774.8	808.6	861.9	904.6	918.8
42.5°	8036.2	6100.9	1798.5	1041.4	865.5	748.1	742.8	766.0	801.4	831.7	844.1
45°	8805.7	6747.8	1928.2	977.4	845.9	723.2	710.8	719.8	726.8	739.3	746.4
47.5°	9477.4	7202.7	1890.8	918.8	819.3	694.8	673.5	669.9	648.6	646.9	645.1
50°	9941.3	7302.2	1679.4	860.1	780.1	662.9	629.1	607.8	570.4	552.7	554.4
52.5°	10088.8	6909.4	1372.0	801.4	716.2	620.2	572.3	538.4	492.3	476.3	474.5
55°	9893.3	6140.0	1096.4	730.4	627.3	563.3	510.0	465.7	428.2	408.8	408.8
57.5°	9415.2	5160.8	867.3	646.9	533.1	499.4	446.1	401.6	369.6	350.1	346.6
60°	8622.6	4098.1	685.9	547.3	454.9	430.1	374.9	346.6	318.1	295.0	289.7
62.5°	7419.5	2925.1	538.4	433.6	380.3	351.9	319.9	298.6	264.8	232.8	227.4
65°	5789.9	1789.5	415.8	318.1	305.7	291.4	271.9	252.4	211.5	179.5	174.1
67.5°	3652.0	847.7	296.7	240.0	241.7	234.6	225.7	209.7	179.5	151.1	147.5
70°	1608.3	410.5	195.5	183.1	179.5	179.5	186.5	181.2	152.8	126.2	120.8
72.5°	547.3	220.4	145.8	138.6	129.8	127.9	156.4	151.1	122.6	97.8	92.5
75°	286.1	147.5	106.6	99.5	78.2	94.2	124.4	117.3	87.1	64.0	58.6
77.5°	186.5	104.9	72.9	64.0	44.4	62.2	92.5	81.8	51.6	32.0	28.4
80°	117.3	69.3	42.6	30.2	21.3	33.7	49.7	35.6	19.6	7.1	5.3
82.5°	62.2	35.6	16.0	10.7	8.9	10.7	12.4	8.9	3.6	0.0	0.0
85°	24.9	12.4	5.3	3.6	1.7	0.0	3.6	1.7	0.0	0.0	0.0
87.5°	8.9	1.7	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)