

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: P967119

Luminaire Tested: **NAV-SB4D-722-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967119
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-SB4D-722-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 900mA 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: 26146.7 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

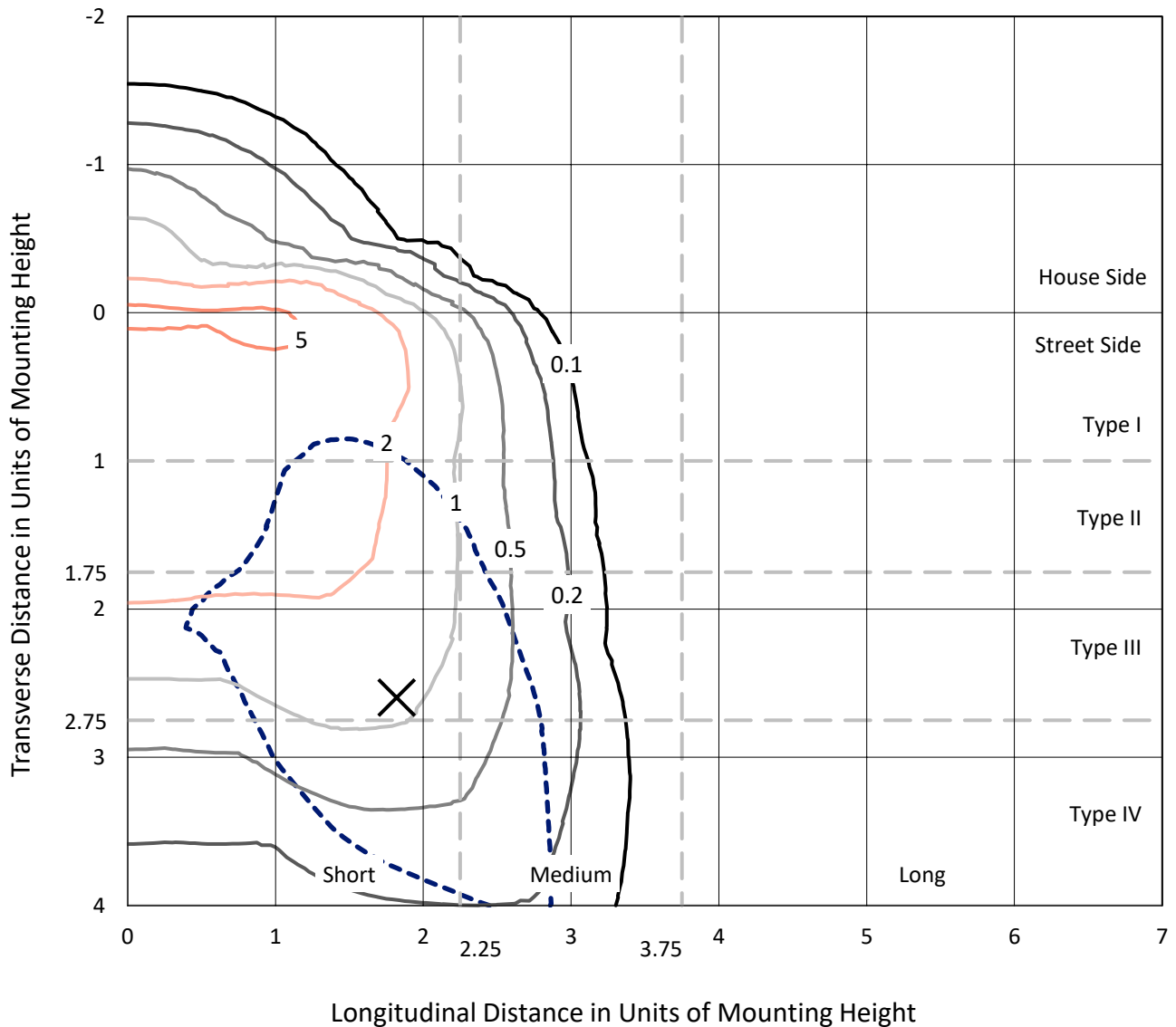
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

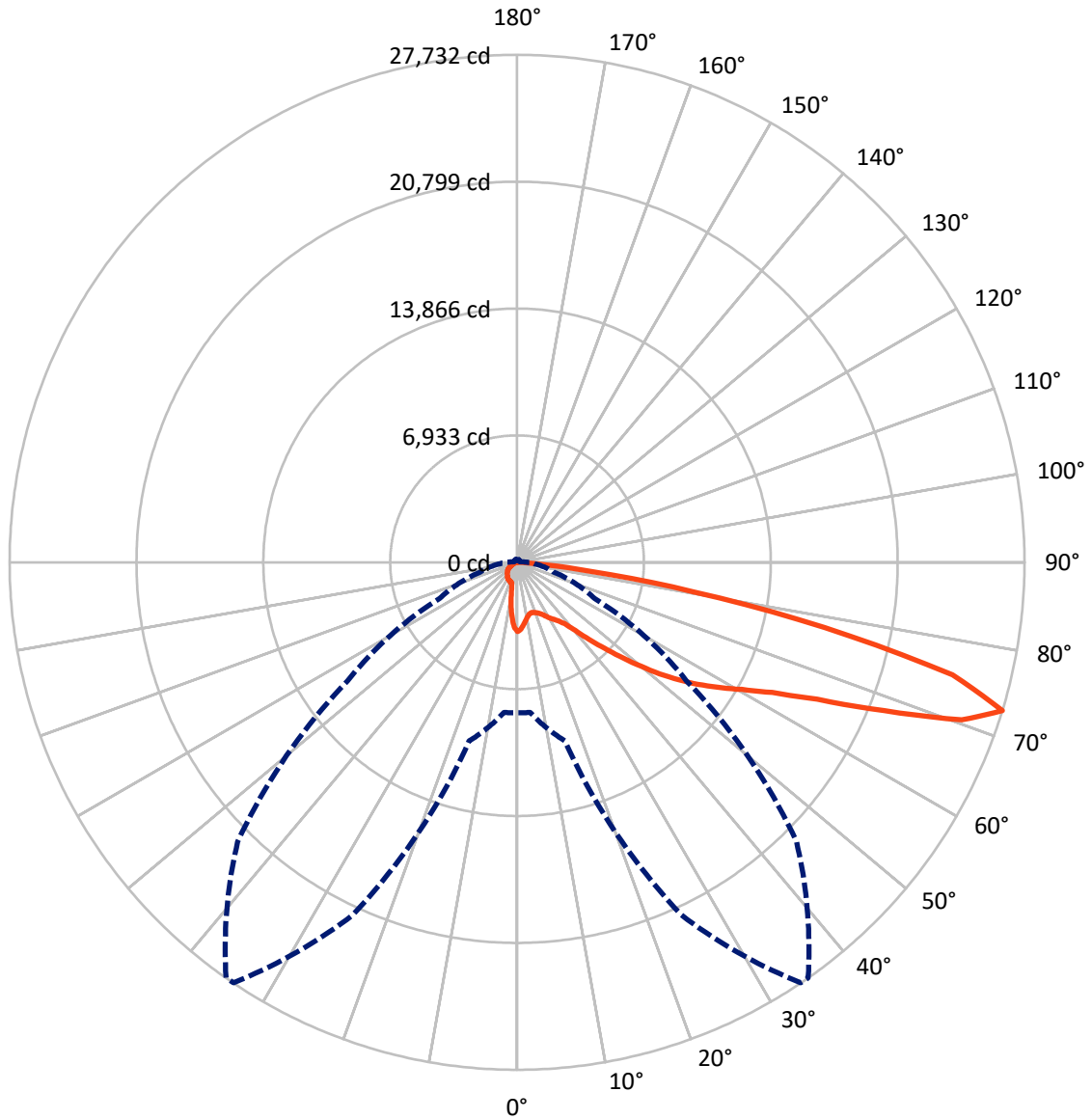
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	2942.7	0.0	2942.7
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	23204.0	0.0	23204.0
	% Fixture	88.7	0.0	88.7
Total	Lumens	26146.7	0.0	26146.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.4	1.2
10°-20°	728.5	2.8
20°-30°	1183.4	4.5
30°-40°	1974.5	7.6
40°-50°	3735.8	14.3
50°-60°	5936.1	22.7
60°-70°	7343.4	28.1
70°-80°	4564.7	17.5
80°-90°	368.9	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°	26146.7	100.0
0°-180°	26146.7	100.0

Coefficient of Utilization



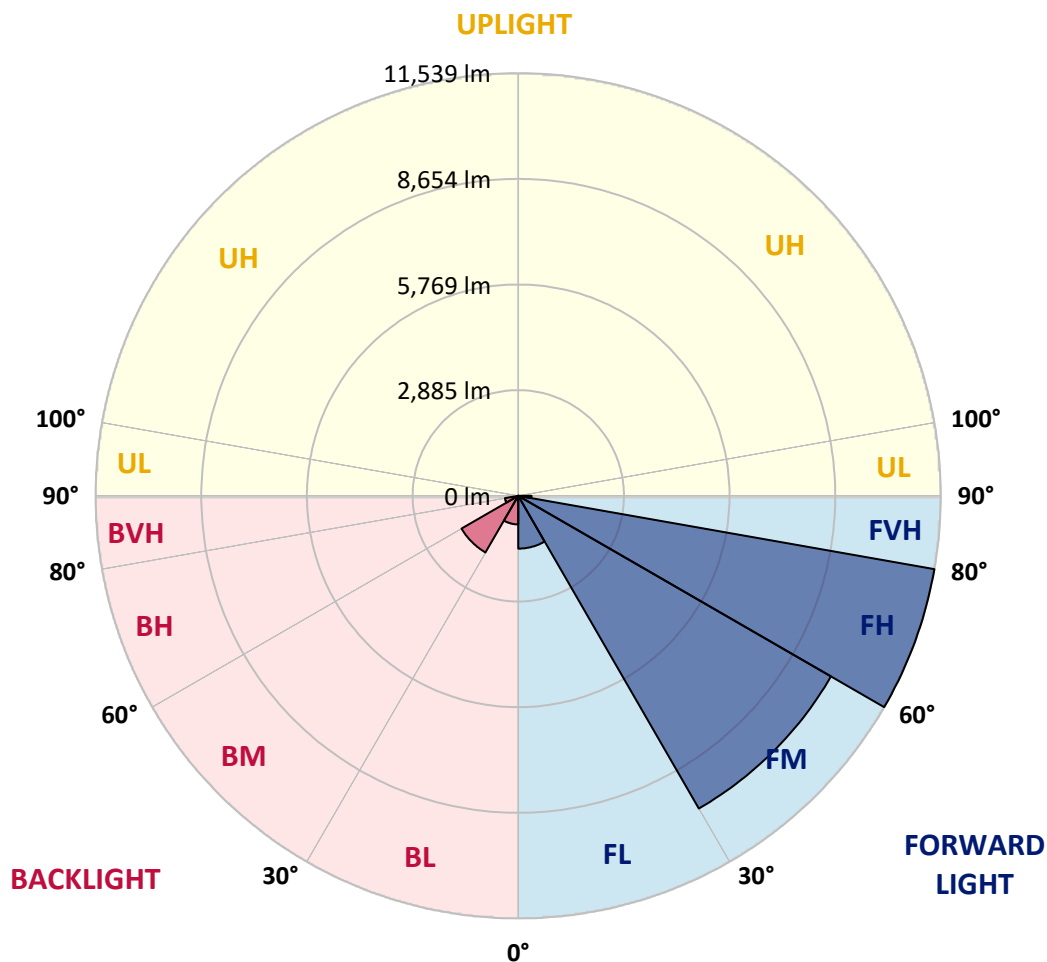
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1441.3	5.5			
FM (30°-60°)	9859.9	37.7			
FH (60°-80°)	11538.9	44.1			G4/12000
FVH (80°-90°)	363.9	1.4			G3/500
BL (0°-30°)	781.9	3.0	B2/1000		
BM (30°-60°)	1786.5	6.8	B2/2500		
BH (60°-80°)	369.3	1.4	B1/500		G1/500
BVH (80°-90°)	5.0	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3789.5	3789.5	3789.5	3789.5	3789.5	3789.5	3789.5	3789.5	3789.5	3789.5	3789.5
2.5°	3620.9	3651.6	3657.3	3666.9	3666.9	3678.4	3697.6	3724.4	3768.4	3791.5	3806.7
5°	3337.4	3360.4	3389.2	3412.1	3456.2	3461.9	3536.7	3609.4	3711.0	3787.6	3841.3
7.5°	3051.9	3078.8	3117.1	3172.7	3230.1	3247.3	3360.4	3483.1	3644.0	3787.6	3877.7
10°	2850.7	2852.7	2887.2	2942.8	3034.7	3055.7	3193.7	3368.0	3569.3	3764.6	3912.1
12.5°	2737.8	2751.1	2766.5	2808.6	2896.8	2910.2	3057.7	3262.7	3494.5	3751.2	3952.4
15°	2737.8	2747.3	2756.9	2778.0	2848.9	2860.4	2990.6	3195.6	3456.2	3756.9	4017.5
17.5°	2766.5	2781.8	2774.2	2799.1	2873.8	2881.4	2996.4	3176.5	3454.2	3793.3	4117.1
20°	2835.5	2846.9	2831.7	2846.9	2921.7	2937.0	3055.7	3212.9	3486.8	3856.6	4241.7
22.5°	2944.6	2950.4	2914.0	2925.5	3002.1	3021.3	3159.3	3316.3	3565.4	3958.1	4408.3
25°	3082.6	3094.1	3038.5	3051.9	3124.7	3147.8	3306.8	3471.5	3689.9	4098.0	4621.0
27.5°	3241.6	3247.3	3199.4	3197.6	3291.4	3324.0	3484.9	3663.0	3856.6	4274.2	4889.2
30°	3423.6	3440.8	3394.9	3387.2	3506.0	3532.8	3691.8	3898.7	4101.8	4538.6	5270.4
32.5°	3567.3	3580.7	3553.9	3573.0	3693.8	3714.8	3942.8	4232.1	4486.9	4914.2	5789.7
35°	3774.3	3781.8	3720.5	3755.1	3893.0	3946.7	4285.7	4699.5	4971.7	5385.5	6467.9
37.5°	4523.3	4523.3	4262.8	4092.2	4224.4	4272.3	4755.1	5287.8	5569.3	6017.7	7322.4
40°	5559.8	5542.5	5161.3	4812.6	4795.4	4889.2	5423.8	6029.2	6341.5	6776.4	8284.2
42.5°	6665.3	6638.4	6119.2	5774.3	5716.8	5749.4	6195.8	6943.0	7261.0	7701.6	9318.7
45°	7646.1	7638.5	7163.3	6699.7	6596.3	6699.7	7159.5	8012.0	8240.1	8703.7	10351.3
47.5°	8468.0	8468.0	8121.3	7818.6	7764.9	7826.2	8464.1	9197.9	9176.9	9770.8	11357.1
50°	9414.4	9406.8	9077.3	8947.0	9002.6	9088.8	9966.2	10447.1	10146.3	10818.8	12255.6
52.5°	10077.3	10123.3	10010.3	9989.2	10272.8	10422.2	11491.3	11669.4	11014.1	11813.1	12928.1
55°	10602.3	10655.9	10786.2	10933.7	11479.7	11675.2	12968.3	12828.5	11740.2	12675.3	13315.1
57.5°	11345.6	11269.0	11470.2	11761.4	12644.6	12880.3	14399.5	13922.5	12324.6	13374.5	13357.3
60°	12248.0	12259.5	12294.0	12661.8	13807.5	14110.2	15809.5	14957.0	12700.2	13803.7	12889.8
62.5°	13332.4	13349.6	13420.5	13985.6	15368.8	15654.3	17311.5	15803.8	12872.6	13682.9	11682.8
65°	13257.7	13330.4	14121.6	16054.8	17742.6	18024.2	19064.6	16397.7	12612.0	12579.4	9512.2
67.5°	12077.5	12196.3	13520.1	18526.2	21321.4	21635.6	21183.5	16514.6	11487.4	9782.3	6205.5
70°	10529.5	10571.6	12163.7	20748.6	25465.4	25783.4	23080.1	15229.0	8717.1	5456.3	2779.9
72.5°	8222.8	8232.4	10100.3	21263.9	27714.6	27731.8	21591.5	11305.3	4688.0	2095.9	965.6
75°	5874.0	5816.5	6764.8	17244.5	24382.9	24578.4	16187.0	5303.0	1791.3	990.5	480.8
77.5°	3149.6	3212.9	3827.9	10226.7	16844.1	17177.5	8832.0	1528.9	911.9	674.3	318.1
80°	973.2	1026.8	1569.1	4682.3	9540.9	9742.0	3274.2	680.1	636.0	480.8	208.8
82.5°	306.6	318.1	731.8	1967.6	3960.1	4052.0	948.3	385.1	434.9	318.1	122.6
85°	88.1	90.0	325.6	733.8	979.0	998.1	266.3	149.4	249.1	197.3	63.2
87.5°	9.5	30.6	122.6	122.6	86.2	84.3	28.7	32.6	70.9	24.9	11.5
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°	3789.5	3789.5	3789.5	3789.5	3789.5	3789.5	3789.5	3789.5	3789.5	3789.5	3789.5
2.5°	3797.2	3799.2	3774.3	3732.0	3686.1	3647.8	3599.9	3561.6	3534.7	3527.0	3540.5
5°	3824.1	3810.6	3739.7	3611.4	3458.1	3325.9	3178.4	3061.5	2984.9	2952.3	2963.8
7.5°	3864.2	3825.9	3670.7	3417.9	3124.7	2864.2	2599.8	2394.8	2264.5	2199.3	2209.0
10°	3898.7	3822.1	3555.8	3138.1	2689.8	2295.2	1938.8	1691.7	1553.8	1488.6	1490.6
12.5°	3931.3	3820.2	3406.4	2806.8	2199.3	1716.6	1385.2	1262.5	1224.3	1210.8	1206.9
15°	3992.6	3825.9	3218.6	2427.4	1710.8	1297.0	1176.3	1174.4	1182.0	1178.2	1176.3
17.5°	4076.9	3831.7	3005.9	2025.1	1320.0	1143.8	1138.1	1155.3	1166.8	1161.0	1159.1
20°	4186.1	3854.7	2779.9	1626.6	1134.2	1105.5	1118.9	1134.2	1143.8	1134.2	1132.2
22.5°	4339.3	3894.9	2532.8	1306.6	1074.8	1082.4	1094.0	1111.2	1120.7	1107.3	1105.5
25°	4527.1	3958.1	2289.4	1136.1	1046.0	1055.6	1072.9	1092.0	1103.5	1090.1	1088.2
27.5°	4770.5	4059.7	2065.3	1097.8	1017.3	1023.1	1048.0	1076.7	1092.0	1074.8	1074.8
30°	5123.0	4226.4	1871.8	1115.0	1000.1	986.7	1021.1	1061.4	1078.6	1063.3	1061.4
32.5°	5590.5	4462.0	1753.0	1141.8	992.4	944.5	977.0	1028.8	1057.6	1048.0	1048.0
35°	6203.5	4820.3	1707.0	1172.5	986.7	900.5	923.4	979.0	1028.8	1038.4	1038.4
37.5°	6946.8	5318.4	1720.5	1185.9	969.4	864.1	875.6	923.4	988.6	1019.3	1026.8
40°	7791.7	5898.9	1797.0	1172.5	950.3	833.4	835.3	871.7	929.2	975.2	990.5
42.5°	8663.4	6577.1	1938.8	1122.7	933.1	806.6	800.8	825.7	864.1	896.6	910.0
45°	9493.0	7274.4	2078.7	1053.7	911.9	779.7	766.3	775.9	783.6	797.0	804.6
47.5°	10217.2	7764.9	2038.4	990.5	883.2	749.1	726.1	722.3	699.3	697.4	695.5
50°	10717.2	7872.2	1810.5	927.3	841.0	714.6	678.2	655.2	615.0	595.8	597.8
52.5°	10876.3	7448.8	1479.1	864.1	772.1	668.6	616.9	580.5	530.6	513.4	511.6
55°	10665.5	6619.2	1182.0	787.4	676.3	607.3	549.8	501.9	461.8	440.6	440.6
57.5°	10150.2	5563.6	934.9	697.4	574.7	538.3	480.8	433.0	398.5	377.4	373.6
60°	9295.6	4418.0	739.5	590.1	490.5	463.6	404.3	373.6	343.0	318.1	312.3
62.5°	7998.7	3153.5	580.5	467.5	410.0	379.4	344.8	321.8	285.5	251.0	245.2
65°	6241.8	1929.3	448.3	343.0	329.5	314.2	293.2	272.0	228.0	193.5	187.8
67.5°	3937.0	913.9	319.9	258.6	260.6	252.9	243.3	226.1	193.5	162.9	159.0
70°	1733.8	442.6	210.7	197.3	193.5	193.5	201.2	195.4	164.7	136.0	130.3
72.5°	590.1	237.6	157.1	149.4	139.8	138.0	168.6	162.9	132.2	105.4	99.6
75°	308.4	159.0	114.9	107.3	84.3	101.6	134.1	126.5	93.9	69.0	63.2
77.5°	201.2	113.1	78.5	69.0	47.9	67.0	99.6	88.1	55.6	34.4	30.6
80°	126.5	74.7	46.0	32.6	23.0	36.4	53.6	38.3	21.1	7.7	5.7
82.5°	67.0	38.3	17.2	11.5	9.5	11.5	13.4	9.5	3.8	0.0	0.0
85°	26.9	13.4	5.7	3.8	1.9	0.0	3.8	1.9	0.0	0.0	0.0
87.5°	9.5	1.9	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)