

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: P968683

Luminaire Tested: **NAV-SB5C-722-U-SL4-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968683
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5C-722-U-SL4-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22360.4 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

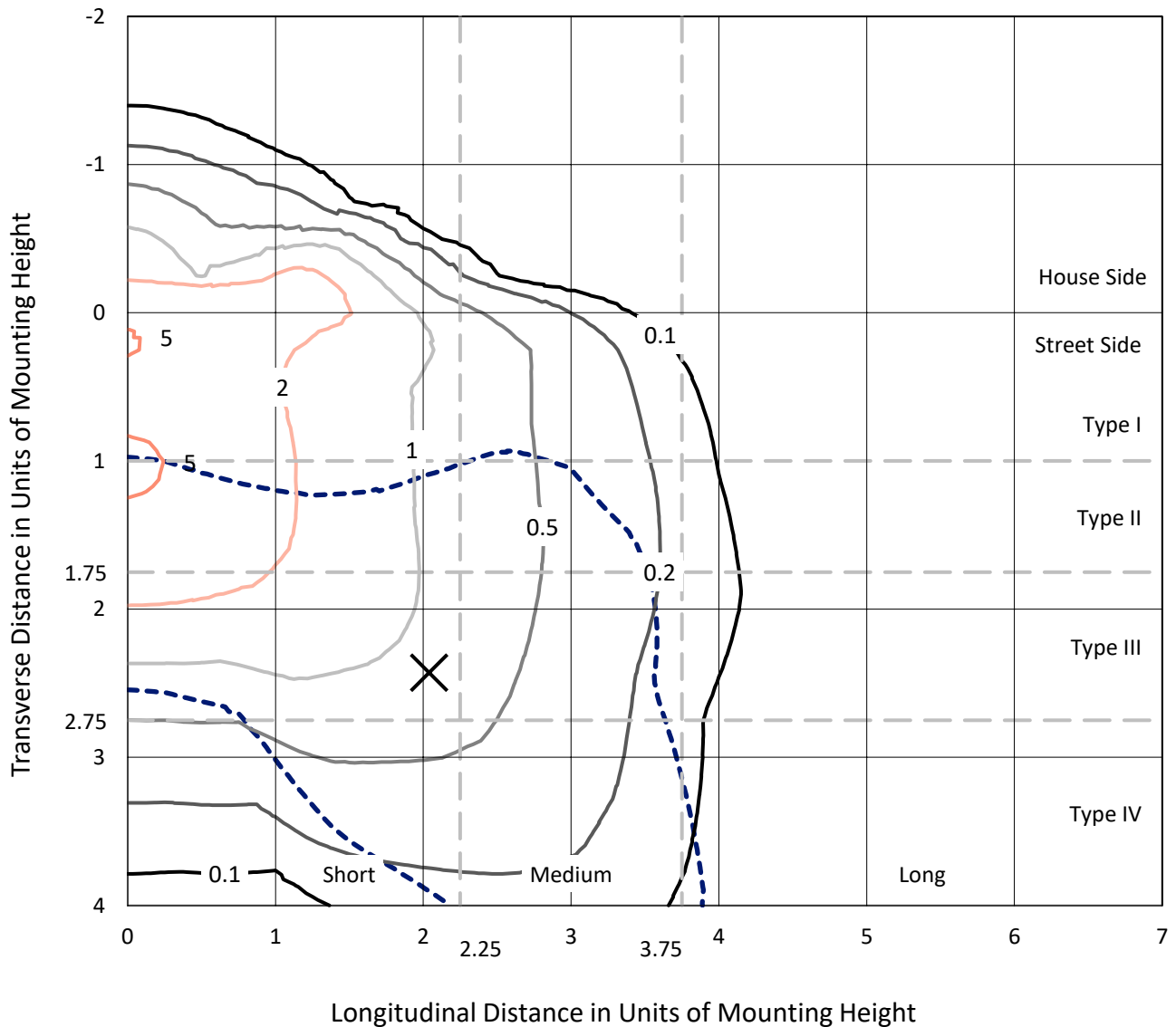
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P968683
 CATALOG NUMBER: NAV-SB5C-722-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

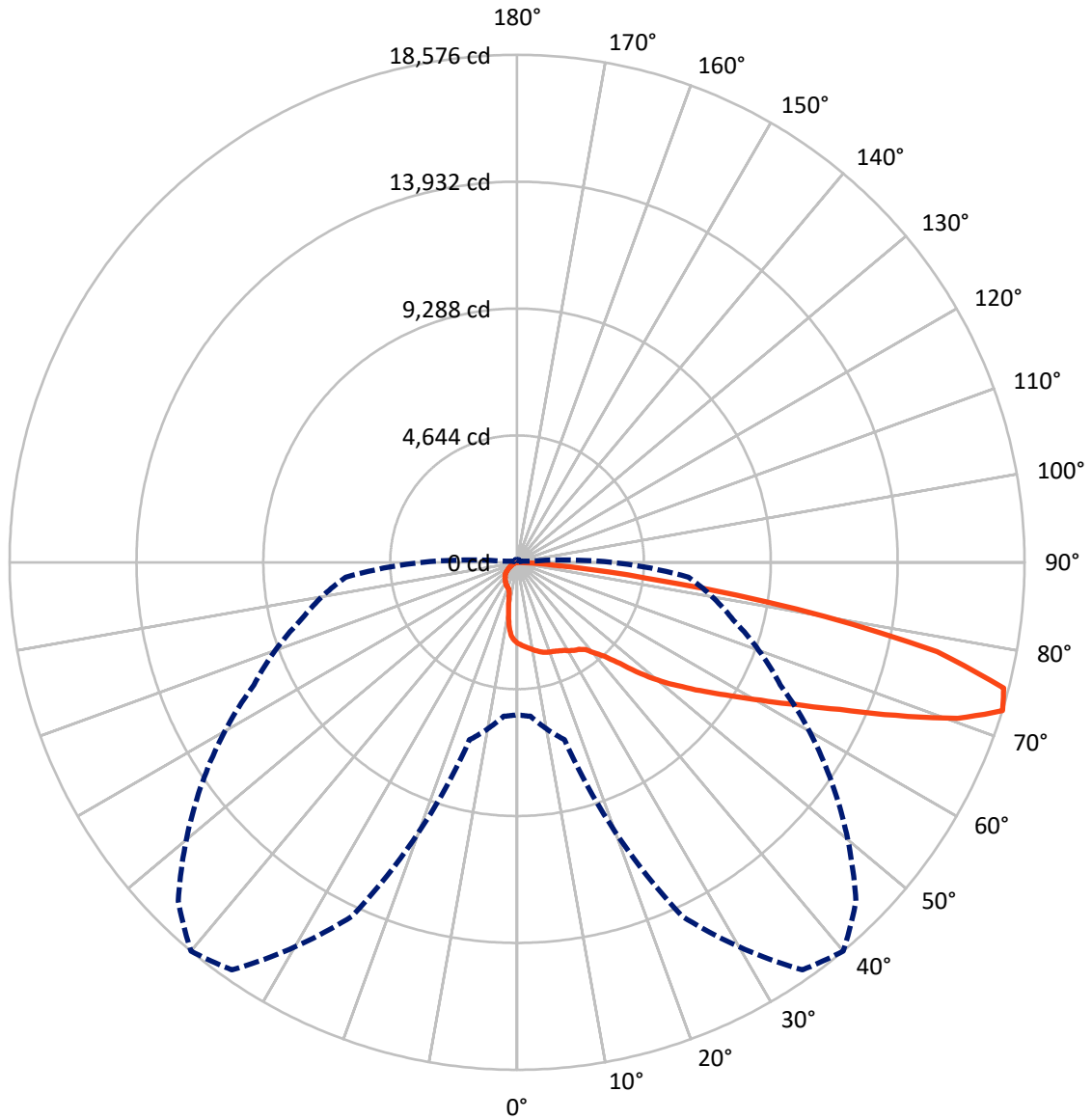
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P968683
CATALOG NUMBER: NAV-SB5C-722-U-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P968683
 CATALOG NUMBER: NAV-SB5C-722-U-SL4-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2887.6	0.0	2887.6
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	19472.8	0.0	19472.8
	% Fixture	87.1	0.0	87.1
Total	Lumens	22360.4	0.0	22360.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.4	1.2
10°-20°	734.3	3.3
20°-30°	1188.1	5.3
30°-40°	1754.1	7.8
40°-50°	2952.2	13.2
50°-60°	4584.0	20.5
60°-70°	5735.9	25.7
70°-80°	4696.0	21.0
80°-90°	445.3	2.0
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°	22360.4	100.0
0°-180°	22360.4	100.0

Coefficient of Utilization

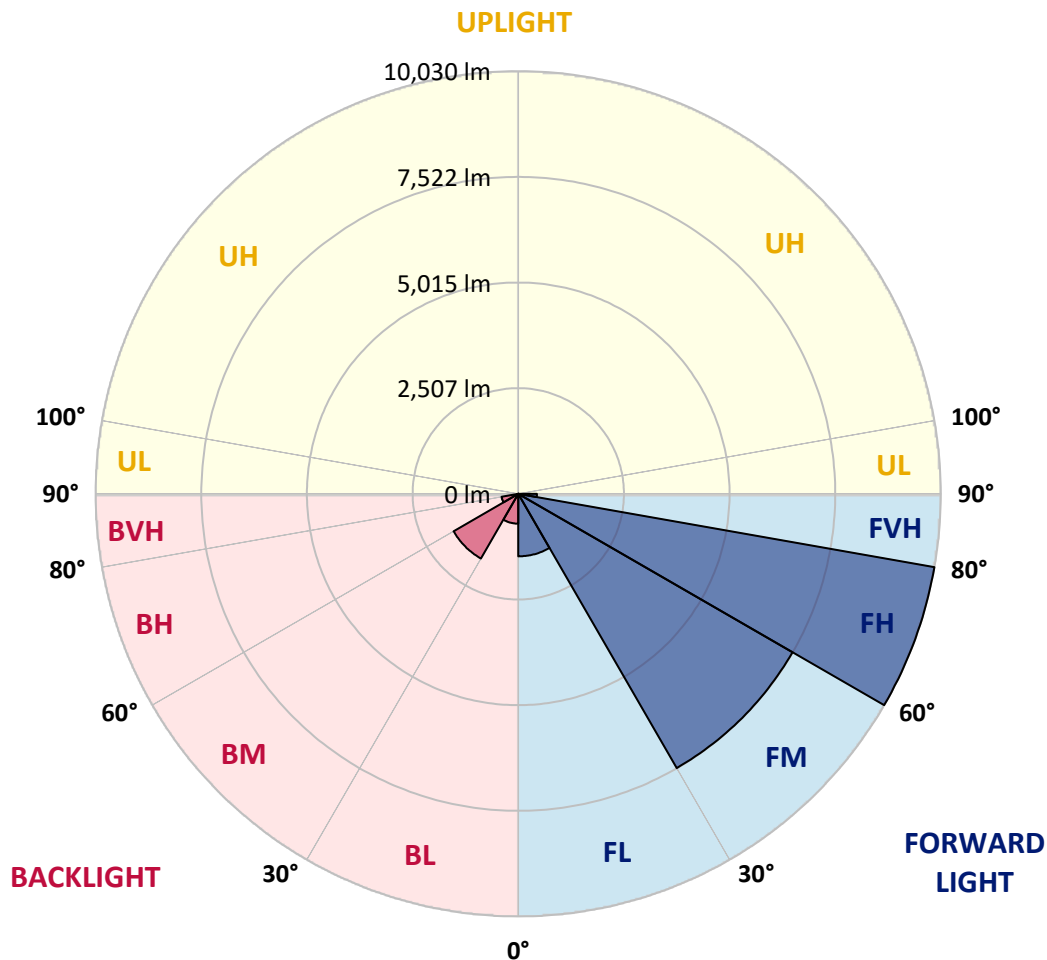


REPORT NUMBER: P968683
 CATALOG NUMBER: NAV-SB5C-722-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1484.1	6.6			
FM (30°-60°)	7517.2	33.6			
FH (60°-80°)	10029.6	44.9			G4/12000
FVH (80°-90°)	441.9	2.0			G3/500
BL (0°-30°)	708.8	3.2	B2/1000		
BM (30°-60°)	1773.2	7.9	B2/2500		
BH (60°-80°)	402.3	1.8	B1/500		G1/500
BVH (80°-90°)	3.4	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: P968683
 CATALOG NUMBER: NAV-SB5C-722-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2960.7	2960.7	2960.7	2960.7	2960.7	2960.7	2960.7	2960.7	2960.7	2960.7	2960.7
2.5°	3050.0	3061.8	3055.0	3041.5	3038.2	3031.4	3023.0	3019.6	3007.9	2997.7	2985.9
5°	3135.9	3147.7	3139.2	3120.7	3112.3	3103.8	3092.0	3082.0	3058.4	3036.5	3009.5
7.5°	3230.2	3240.2	3230.2	3203.2	3189.7	3179.7	3162.7	3147.7	3120.7	3088.7	3055.0
10°	3334.5	3343.0	3327.9	3292.5	3270.6	3255.4	3240.2	3223.4	3198.2	3162.7	3122.4
12.5°	3432.2	3442.4	3418.8	3376.7	3351.4	3336.3	3319.5	3305.9	3280.7	3247.0	3204.9
15°	3521.5	3536.7	3496.3	3450.8	3422.2	3410.4	3393.5	3385.1	3368.3	3344.7	3305.9
17.5°	3588.8	3599.0	3556.9	3502.9	3471.0	3462.6	3450.8	3455.8	3452.5	3440.7	3415.4
20°	3646.1	3652.9	3597.3	3531.6	3496.3	3497.9	3494.5	3511.4	3518.1	3518.1	3516.5
22.5°	3716.9	3718.6	3647.8	3565.3	3523.2	3535.0	3540.0	3558.6	3572.0	3585.6	3615.8
25°	3809.5	3806.1	3721.9	3609.1	3572.0	3588.8	3600.6	3607.4	3622.6	3644.5	3713.5
27.5°	3947.6	3937.5	3829.7	3679.9	3636.0	3651.2	3673.1	3669.7	3662.9	3679.9	3796.0
30°	4122.8	4109.2	3966.1	3779.2	3738.8	3752.2	3759.0	3728.6	3679.9	3695.0	3868.5
32.5°	4400.6	4377.1	4178.3	3890.3	3828.1	3843.1	3834.7	3772.4	3700.0	3715.2	3940.8
35°	4883.9	4826.7	4545.5	4122.8	3929.0	3912.2	3892.0	3831.3	3742.2	3727.0	4001.5
37.5°	5911.3	5810.2	5330.3	4575.8	4158.1	4048.6	3986.3	3925.7	3787.6	3727.0	4070.6
40°	7069.9	6967.2	6413.1	5333.6	4538.7	4353.5	4205.3	4036.9	3834.7	3748.8	4178.3
42.5°	8279.1	8166.4	7597.1	6273.4	5082.7	4702.1	4425.8	4126.1	3912.2	3816.3	4321.5
45°	9629.9	9488.3	8744.0	7253.5	5872.5	5281.4	4781.2	4309.7	4047.0	3935.8	4516.9
47.5°	11054.6	10871.0	9887.5	8205.0	6723.1	6083.1	5431.3	4638.1	4245.7	4114.3	4781.2
50°	12317.7	12135.8	11068.1	9200.4	7518.0	6846.0	6172.3	5092.8	4543.8	4366.9	5136.6
52.5°	13225.5	13087.3	12142.6	10227.7	8344.8	7561.7	6844.3	5621.6	4921.0	4690.3	5555.9
55°	13833.4	13707.1	12903.8	11201.1	9306.5	8349.9	7506.2	6195.9	5375.7	5077.6	6019.1
57.5°	14202.2	14129.8	13454.5	12070.1	10259.7	9212.2	8264.0	6827.4	5911.3	5534.1	6536.1
60°	14333.6	14274.7	13796.4	12898.7	11411.6	10247.9	9154.9	7539.8	6561.3	6052.7	7066.6
62.5°	13983.3	13995.1	14042.3	13880.6	12625.9	11460.5	10222.6	8395.4	7282.2	6640.5	7565.1
65°	12334.5	12432.2	13328.2	14968.5	14234.3	12979.6	11581.8	9439.5	8107.3	7309.1	7960.9
67.5°	10212.6	10354.0	11468.9	15605.1	15948.7	14951.7	13474.6	10770.0	9090.9	7989.5	8110.7
70°	7817.7	7969.3	9319.9	15472.1	17553.6	17107.4	15815.6	12462.6	10109.8	8461.1	7728.5
72.5°	5579.5	5657.0	6721.3	14288.1	18212.1	18575.9	17540.2	14065.9	10630.2	8200.0	6303.6
75°	3920.6	3907.2	4612.8	11505.9	17186.5	18397.4	16935.6	13198.5	9619.7	6514.2	3887.0
77.5°	1707.8	1711.0	2303.9	6987.4	13717.2	15712.9	14077.7	8267.3	6706.2	3452.5	1640.3
80°	442.9	456.4	845.4	2782.2	8258.9	10370.8	8585.7	3634.3	3098.8	842.0	313.2
82.5°	156.6	166.8	389.0	874.0	3046.6	4756.0	3822.9	1162.0	808.4	240.9	84.3
85°	45.5	53.9	208.8	267.7	629.9	1344.0	927.9	225.7	198.7	124.6	21.9
87.5°	0.0	6.8	42.1	37.0	37.0	25.2	47.2	25.2	32.0	15.2	6.8
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: P968683
 CATALOG NUMBER: NAV-SB5C-722-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2960.7	2960.7	2960.7	2960.7	2960.7	2960.7	2960.7	2960.7	2960.7	2960.7	2960.7
2.5°	2975.9	2964.1	2938.8	2911.8	2886.6	2863.0	2856.3	2831.0	2819.3	2820.9	2819.3
5°	2991.1	2969.1	2920.2	2861.3	2800.7	2731.6	2674.4	2593.6	2524.5	2516.1	2511.0
7.5°	3031.4	2996.1	2916.9	2802.4	2650.9	2460.5	2283.7	2108.5	2009.2	1955.3	1951.9
10°	3093.8	3046.6	2925.4	2706.4	2384.8	2044.6	1776.7	1556.2	1443.3	1391.1	1381.0
12.5°	3167.9	3115.6	2938.8	2543.0	2041.2	1594.9	1305.2	1170.4	1146.9	1143.5	1141.8
15°	3272.2	3215.0	2953.9	2322.4	1669.0	1214.2	1081.2	1082.9	1101.5	1111.5	1109.9
17.5°	3388.4	3331.2	2932.1	2053.0	1301.9	1037.4	1034.0	1049.2	1076.1	1086.3	1084.6
20°	3506.3	3452.5	2854.6	1736.4	1052.6	988.6	1002.0	1018.8	1045.8	1059.3	1059.3
22.5°	3627.6	3580.4	2731.6	1399.5	949.9	953.2	970.1	986.9	1017.2	1032.4	1032.4
25°	3757.2	3716.9	2568.3	1121.7	906.1	916.1	938.1	958.3	990.3	1008.8	1008.8
27.5°	3888.6	3858.3	2383.0	936.3	865.6	877.4	902.7	929.7	961.7	983.5	985.2
30°	4031.8	4014.9	2234.8	867.4	826.9	837.0	865.6	896.0	931.3	958.3	961.7
32.5°	4178.3	4174.9	2162.4	917.9	791.5	798.3	823.6	853.8	897.6	931.3	934.7
35°	4323.1	4329.9	2120.3	1061.0	779.7	761.3	778.1	805.0	857.2	899.3	906.1
37.5°	4508.4	4525.3	2118.7	1216.0	808.4	724.2	735.9	754.5	799.9	848.8	857.2
40°	4784.6	4873.9	2226.4	1349.0	859.0	690.5	693.8	697.2	720.8	761.3	774.7
42.5°	5151.8	5412.8	2615.5	1439.9	879.1	660.2	648.4	629.9	626.5	648.4	660.2
45°	5608.2	6064.5	3299.2	1490.5	859.0	626.5	594.5	545.6	527.2	542.3	542.3
47.5°	6145.4	6778.6	4109.2	1502.2	825.2	584.4	527.2	463.1	448.0	453.0	451.3
50°	6669.2	7314.2	4821.7	1404.6	769.7	530.5	453.0	399.1	389.0	390.7	390.7
52.5°	7132.3	7497.8	5023.7	1173.8	695.6	464.8	389.0	352.0	345.2	345.2	343.6
55°	7438.8	7299.0	4479.8	897.6	602.9	397.5	333.4	315.0	311.6	309.9	306.5
57.5°	7502.8	6652.2	3383.4	648.4	471.6	335.2	296.4	286.3	279.5	272.9	269.5
60°	7273.7	5574.5	2154.0	453.0	353.6	286.3	262.7	255.9	242.5	229.1	224.0
62.5°	6778.6	4210.3	1192.4	315.0	284.6	244.2	232.4	224.0	198.7	176.8	170.0
65°	6113.4	2799.1	527.2	245.9	232.4	205.5	198.7	187.0	156.6	131.4	126.3
67.5°	5444.8	1611.7	237.5	197.0	187.0	168.4	163.4	155.0	133.0	109.5	106.1
70°	4681.9	816.8	163.4	156.6	144.8	128.0	133.0	131.4	109.5	89.3	85.9
72.5°	3486.1	405.9	122.9	117.9	104.4	90.9	109.5	107.8	85.9	67.3	64.0
75°	1973.8	200.4	89.3	82.5	62.3	67.3	87.5	82.5	58.9	43.8	40.4
77.5°	783.1	102.7	58.9	50.5	37.0	45.5	64.0	55.6	30.3	18.6	16.8
80°	180.2	50.5	30.3	21.9	16.8	27.0	33.7	20.2	8.4	1.6	0.0
82.5°	50.5	21.9	10.1	8.4	8.4	10.1	8.4	3.4	0.0	0.0	0.0
85°	16.8	10.1	3.4	1.6	1.6	1.6	1.6	0.0	0.0	0.0	0.0
87.5°	6.8	3.4	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)