

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: P968693

Luminaire Tested: **NAV-SB5C-722-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968693
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5C-722-U-T2U-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24481.1 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

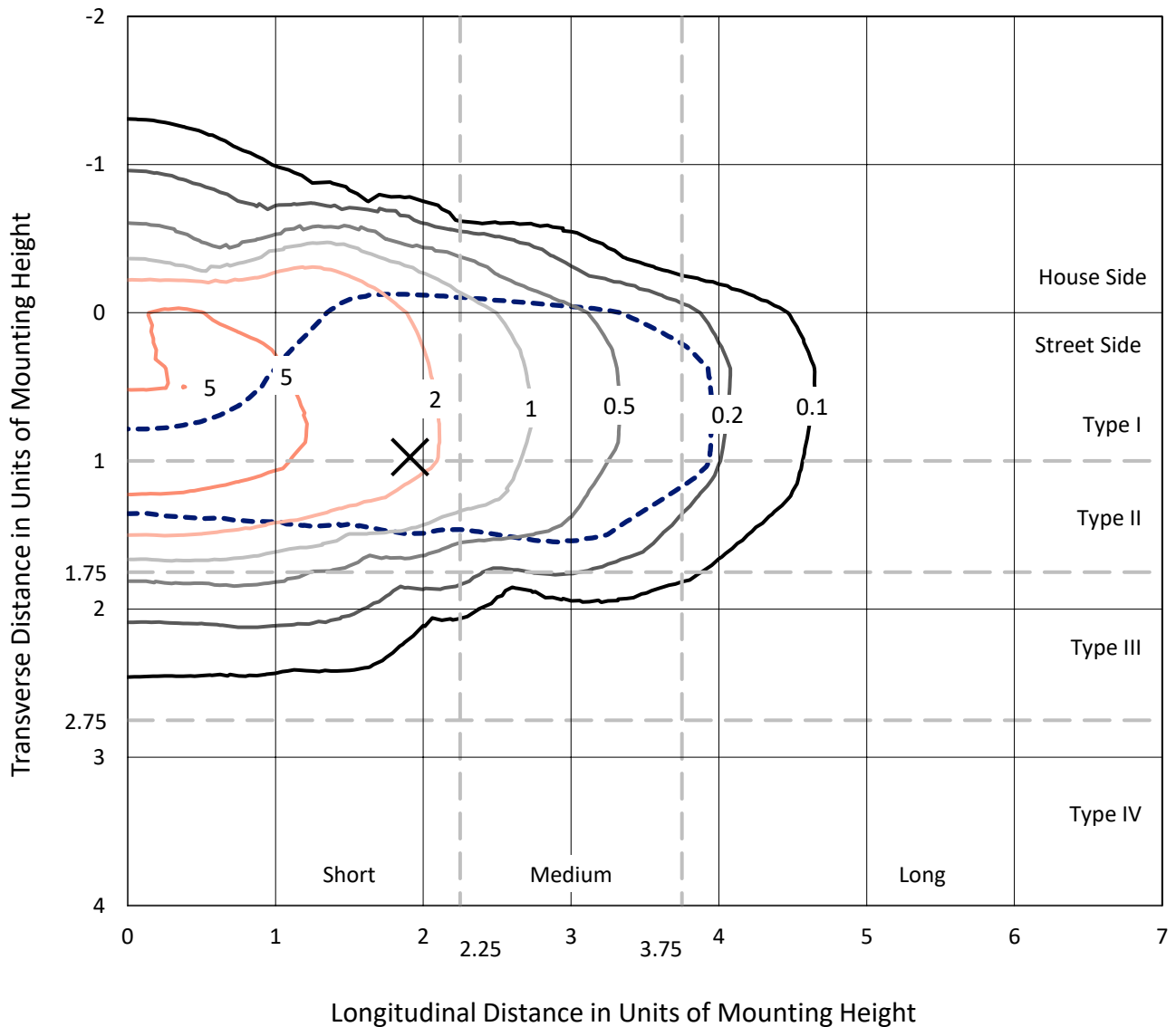
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

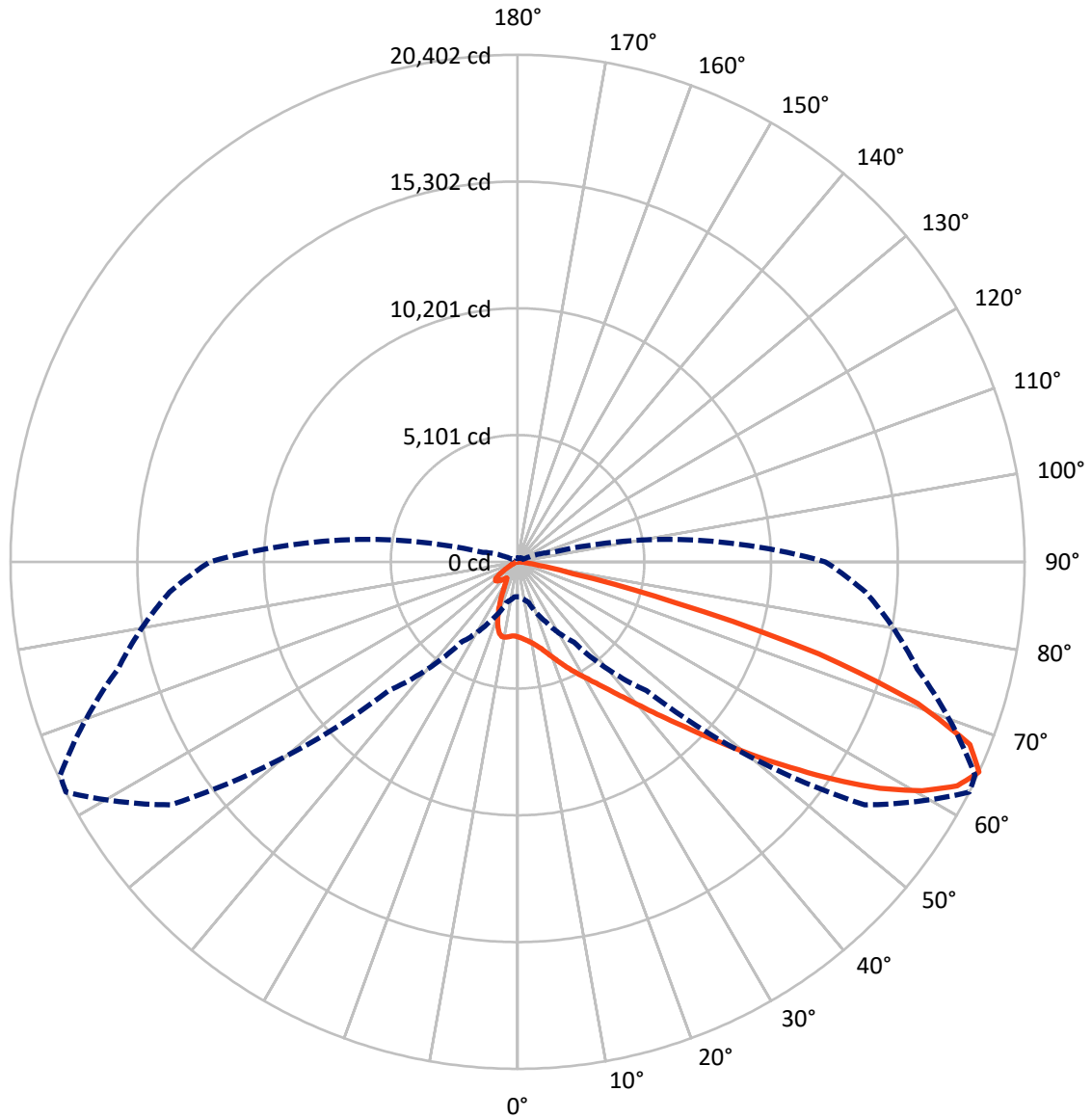
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3598.5	0.0	3598.5
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	20882.6	0.0	20882.6
	% Fixture	85.3	0.0	85.3
Total	Lumens	24481.1	0.0	24481.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.7	1.2
10°-20°	789.9	3.2
20°-30°	1375.4	5.6
30°-40°	2478.9	10.1
40°-50°	4916.5	20.1
50°-60°	6697.2	27.4
60°-70°	5345.6	21.8
70°-80°	2419.0	9.9
80°-90°	173.9	0.7
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°	24481.1	100.0
0°-180°	24481.1	100.0

Coefficient of Utilization



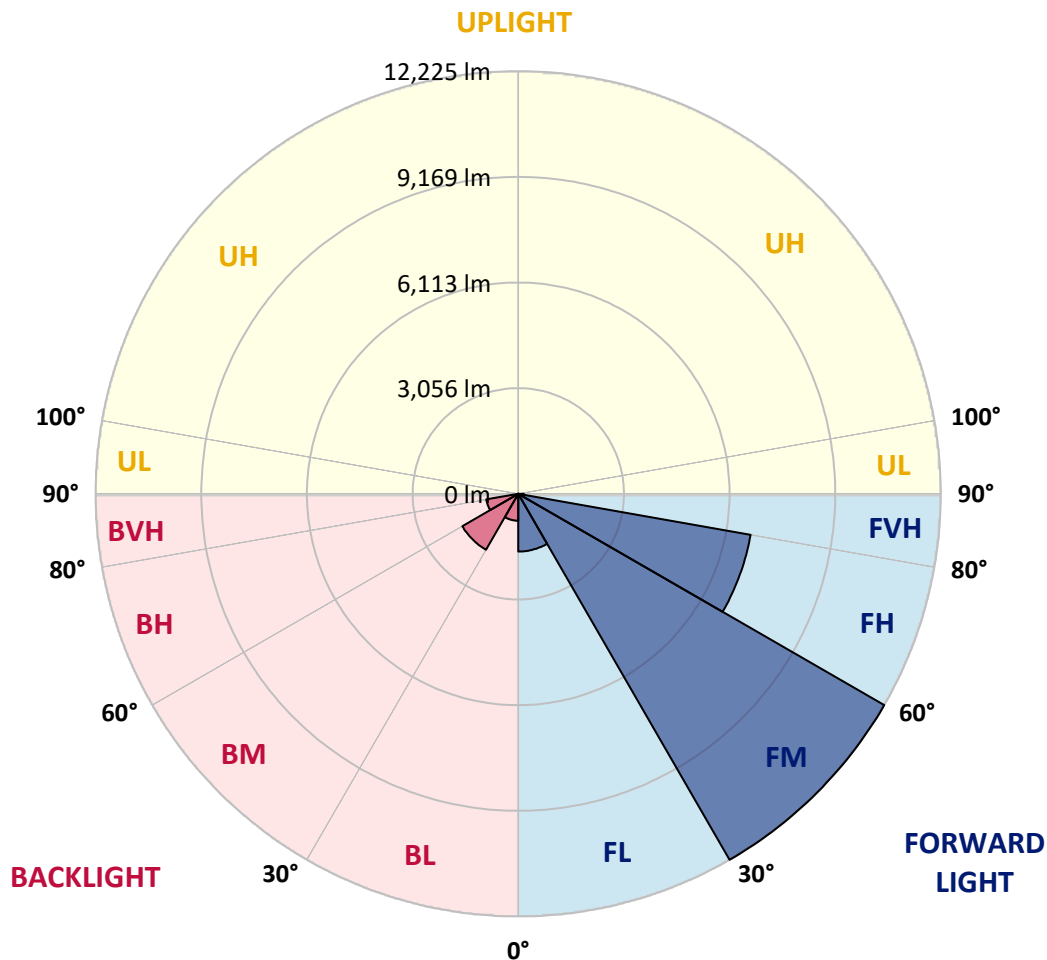
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1671.1	6.8			
FM (30°-60°)	12225.2	49.9			
FH (60°-80°)	6825.2	27.9			G3/7500
FVH (80°-90°)	161.0	0.7			G2/225
BL (0°-30°)	778.8	3.2	B2/1000		
BM (30°-60°)	1867.4	7.6	B2/2500		
BH (60°-80°)	939.4	3.8	B2/1000		G2/1000
BVH (80°-90°)	12.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	3021.4	3021.4	3021.4	3021.4	3021.4	3021.4	3021.4	3021.4	3021.4	3021.4	3021.4
2.5°	3092.1	3083.7	3095.5	3090.5	3087.1	3080.3	3077.0	3073.7	3066.9	3061.9	3041.7
5°	3100.6	3095.5	3107.3	3117.4	3127.6	3137.6	3142.6	3149.4	3142.6	3129.2	3109.0
7.5°	3029.9	3026.5	3051.7	3082.1	3127.6	3166.2	3208.4	3231.9	3233.7	3228.5	3206.7
10°	3024.8	3016.4	3041.7	3078.7	3137.6	3206.7	3280.8	3331.4	3338.0	3360.0	3336.4
12.5°	3103.9	3095.5	3130.9	3171.4	3231.9	3304.4	3395.3	3466.0	3476.2	3506.5	3489.6
15°	3237.1	3225.3	3265.6	3317.8	3395.3	3477.8	3573.9	3637.8	3646.2	3683.3	3653.0
17.5°	3391.9	3380.1	3427.3	3482.8	3567.1	3680.0	3791.1	3861.8	3871.9	3895.5	3840.0
20°	3590.7	3575.5	3612.6	3663.1	3752.3	3887.1	4020.2	4121.2	4119.5	4119.5	4028.6
22.5°	3821.4	3797.8	3829.8	3870.3	3954.4	4117.8	4294.6	4414.3	4414.3	4367.1	4217.2
25°	4069.0	4045.4	4080.8	4117.8	4191.9	4377.2	4584.3	4732.5	4739.3	4658.4	4419.3
27.5°	4378.9	4348.6	4375.5	4419.3	4463.1	4651.8	4897.7	5069.4	5072.7	4948.2	4611.3
30°	4975.0	4889.1	4805.0	4757.8	4778.0	4965.0	5227.7	5418.0	5434.9	5263.1	4820.2
32.5°	6066.5	6049.5	5753.2	5365.8	5163.7	5301.8	5596.5	5825.6	5835.7	5615.1	5091.3
35°	7762.4	7742.2	7265.6	6527.9	5869.4	5753.2	6044.5	6315.7	6309.0	6059.7	5443.3
37.5°	9786.8	9768.2	9140.1	8153.2	7087.1	6435.3	6622.2	6906.9	6949.0	6622.2	5898.1
40°	11516.5	11447.4	11049.9	10098.4	8703.9	7567.1	7444.1	7632.8	7676.5	7289.2	6475.7
42.5°	12826.7	12767.8	12565.7	11971.2	10660.9	9241.1	8412.5	8484.9	8533.7	8068.9	7139.2
45°	13505.5	13492.0	13572.8	13517.3	12655.0	11295.8	9796.9	9495.4	9513.9	8932.9	7892.1
47.5°	13601.4	13594.8	13963.6	14485.7	14369.5	13613.2	11573.7	10755.2	10689.5	9908.1	8710.7
50°	13035.6	13022.1	13729.5	14708.0	15514.7	15560.2	13591.4	12174.9	12030.1	10916.9	9564.5
52.5°	11228.5	11225.1	12387.2	14015.7	15917.2	17264.6	15585.4	13734.6	13492.0	11984.7	10467.2
55°	8639.8	8702.1	10034.3	11959.4	15182.9	18084.8	17375.8	15465.9	15093.6	13059.2	11299.2
57.5°	6120.4	6211.3	7528.3	9242.8	12905.9	17599.8	18586.6	17200.6	16799.8	14130.3	12143.0
60°	3287.5	3368.4	4687.1	6733.3	9601.6	15790.9	19225.0	18706.2	18327.3	15147.6	12904.2
62.5°	1958.7	1985.6	2531.3	4346.9	6494.2	12063.8	18953.8	19853.2	19541.6	16001.5	13566.1
65°	1406.3	1411.3	1685.9	2654.2	3942.7	7329.6	17052.4	20402.2	20306.3	16644.8	14056.2
67.5°	1184.0	1180.6	1295.2	1763.3	2686.3	3671.6	13069.3	19625.8	20033.4	17052.4	14334.1
70°	1015.6	1020.6	1155.4	1291.8	2019.4	2078.3	6497.6	17087.8	17956.8	17160.1	14317.3
72.5°	756.2	773.1	897.7	1177.2	1524.2	1429.9	2243.3	12670.1	14241.5	16168.1	13574.6
75°	533.9	542.3	631.6	990.3	1136.8	1040.8	1145.2	6549.7	8564.1	12395.6	11110.6
77.5°	410.9	426.1	478.3	692.2	1120.0	730.9	700.6	2266.9	3482.8	7487.9	7617.6
80°	222.3	249.3	345.2	500.2	786.5	517.0	347.0	902.7	1180.6	3501.4	2937.2
82.5°	114.5	128.0	240.9	360.4	448.0	451.4	171.8	375.6	486.8	1081.3	402.5
85°	45.5	55.6	161.6	198.7	230.7	222.3	77.5	151.6	175.2	299.8	122.9
87.5°	10.1	16.8	58.9	45.5	43.8	47.2	18.6	35.4	33.7	35.4	21.9
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°	3021.4	3021.4	3021.4	3021.4	3021.4	3021.4	3021.4	3021.4	3021.4	3021.4	3021.4
2.5°	3039.9	3033.2	3014.7	2994.4	2970.9	2957.4	2949.0	2947.3	2935.5	2927.1	2935.5
5°	3090.5	3083.7	3048.4	3006.2	2960.8	2925.5	2891.7	2861.4	2817.6	2809.2	2805.8
7.5°	3191.5	3173.0	3115.8	3058.5	2972.6	2869.9	2745.3	2602.1	2474.0	2435.3	2416.8
10°	3316.2	3290.9	3218.5	3117.4	2927.1	2647.6	2346.1	2066.5	1844.2	1781.9	1758.3
12.5°	3457.6	3435.7	3339.8	3152.8	2736.9	2229.9	1768.4	1421.5	1205.9	1152.0	1136.8
15°	3626.0	3594.1	3461.0	3098.9	2396.6	1694.3	1214.3	1008.8	931.3	921.3	911.1
17.5°	3804.6	3752.3	3568.7	2905.3	1938.5	1204.2	938.1	879.1	845.4	835.4	830.4
20°	3968.0	3900.5	3632.8	2612.2	1448.4	938.1	840.4	801.7	771.3	759.5	752.9
22.5°	4131.3	4035.3	3632.8	2213.0	1086.3	832.0	771.3	735.9	700.6	685.4	677.0
25°	4301.4	4173.4	3568.7	1768.4	874.1	762.9	705.7	667.0	636.6	618.1	611.3
27.5°	4466.4	4289.6	3422.3	1347.4	778.1	702.3	645.0	608.0	579.3	565.9	565.9
30°	4623.1	4404.1	3216.8	1022.3	715.8	643.4	589.5	557.5	528.8	515.4	517.0
32.5°	4835.3	4549.0	2997.8	838.8	661.8	587.7	538.9	508.6	483.4	473.2	473.2
35°	5130.0	4762.9	2809.2	823.6	616.4	542.3	493.4	464.8	439.6	431.1	431.1
37.5°	5547.7	5108.1	2709.9	924.7	579.3	501.8	456.4	426.1	402.5	395.8	394.1
40°	6063.1	5576.3	2763.7	1025.7	554.1	466.5	422.7	392.4	372.2	363.8	362.1
42.5°	6674.4	6154.0	3061.9	1103.1	537.3	436.2	390.7	357.0	343.6	340.2	340.2
45°	7376.7	6789.0	3518.3	1185.6	510.3	407.5	358.7	333.4	323.4	321.6	320.0
47.5°	8175.0	7486.2	4047.1	1288.4	483.4	380.6	333.4	316.6	308.2	304.8	304.8
50°	8966.6	8188.5	4591.1	1345.6	461.5	355.4	313.2	299.8	293.0	291.4	291.4
52.5°	9795.2	8911.0	5030.7	1291.8	442.9	335.2	296.4	286.3	279.6	277.9	277.9
55°	10585.1	9495.4	5106.4	1096.4	405.9	315.0	277.9	272.9	264.4	264.4	262.7
57.5°	11265.6	9788.4	4570.9	805.0	368.8	284.6	259.3	254.3	247.5	245.9	244.3
60°	11890.3	9704.3	3528.4	542.3	328.4	254.3	235.7	232.4	225.7	217.3	215.6
62.5°	12242.4	9333.8	2413.5	353.7	288.0	222.3	208.8	207.2	192.0	175.2	171.8
65°	12375.4	8572.5	1505.6	257.7	240.9	190.3	180.2	176.8	155.0	136.4	134.7
67.5°	12259.2	7319.5	759.5	203.8	190.3	158.4	148.2	148.2	133.0	116.2	114.5
70°	11794.4	5487.0	320.0	163.4	146.6	121.3	121.3	128.0	112.9	94.3	92.7
72.5°	10785.6	3691.7	170.1	124.6	109.5	85.9	99.3	104.4	89.3	70.7	70.7
75°	8574.2	2251.7	117.9	92.7	69.1	60.7	75.7	79.1	60.7	47.2	45.5
77.5°	5864.3	1293.4	79.1	58.9	43.8	35.4	52.2	48.9	32.0	21.9	23.6
80°	2575.1	538.9	45.5	27.0	16.8	13.4	18.6	13.4	10.1	6.8	6.8
82.5°	301.5	126.3	16.8	10.1	6.8	3.4	1.6	0.0	0.0	0.0	0.0
85°	62.3	15.2	8.4	3.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.8	3.4	1.6	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)