

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: P966778

Luminaire Tested: **NAV-SB4C-760-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966778
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-SB4C-760-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 5700K, 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: 24644.1 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

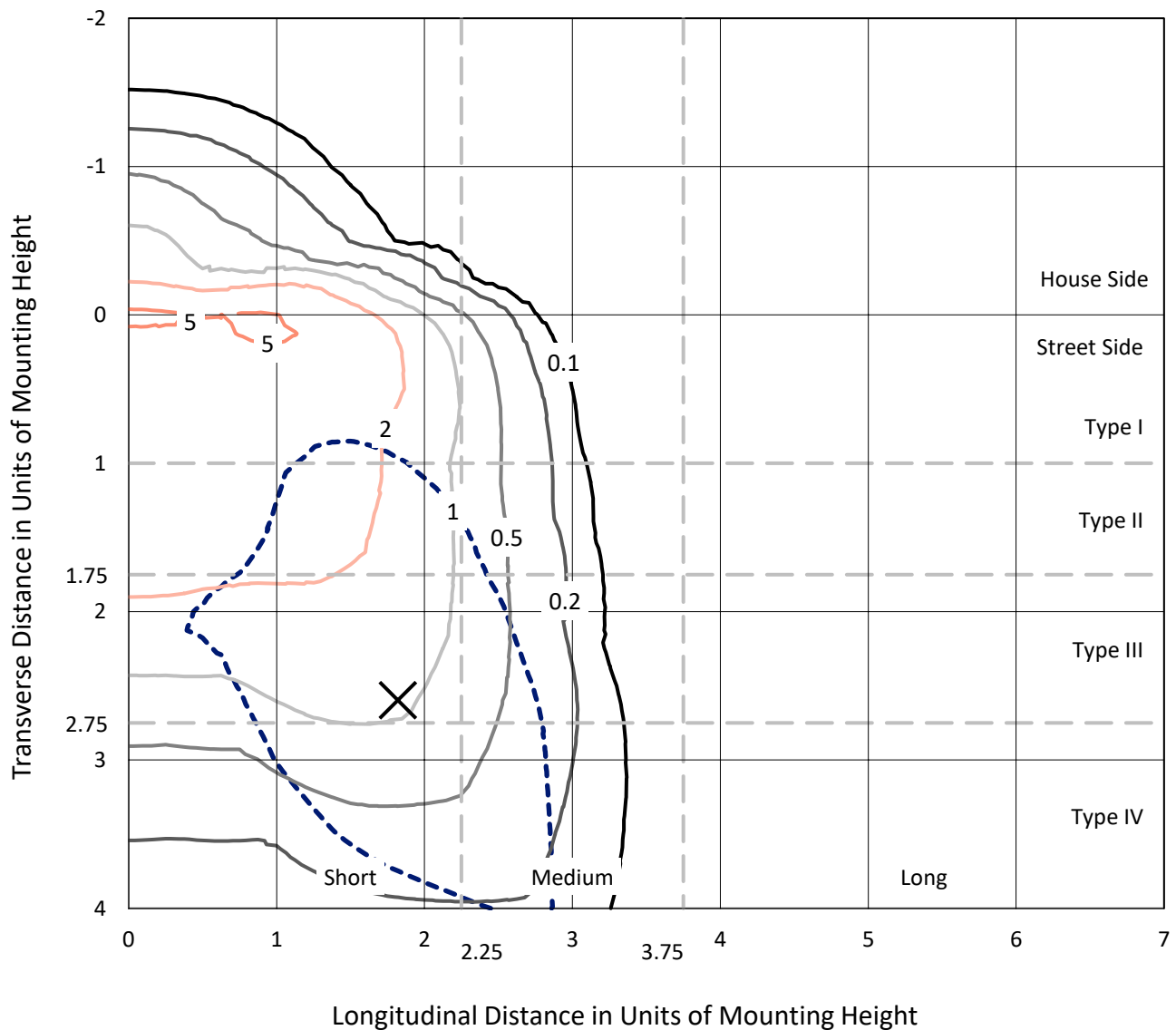
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

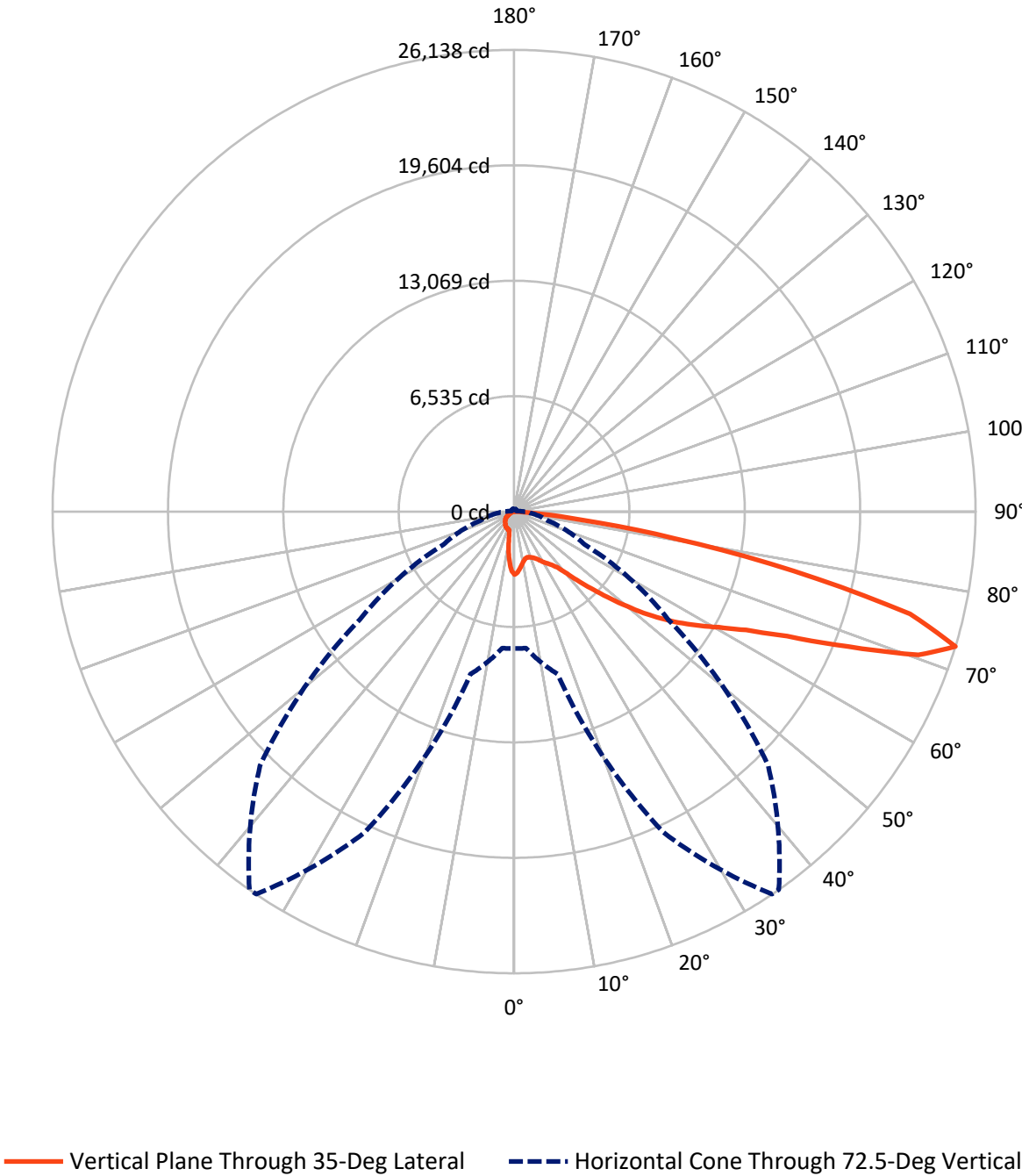
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2773.6	0.0	2773.6
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	21870.5	0.0	21870.5
	% Fixture	88.7	0.0	88.7
Total	Lumens	24644.1	0.0	24644.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.5	1.2
10°-20°	686.6	2.8
20°-30°	1115.4	4.5
30°-40°	1861.0	7.6
40°-50°	3521.1	14.3
50°-60°	5595.0	22.7
60°-70°	6921.4	28.1
70°-80°	4302.4	17.5
80°-90°	347.7	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°	24644.1	100.0
0°-180°	24644.1	100.0

Coefficient of Utilization



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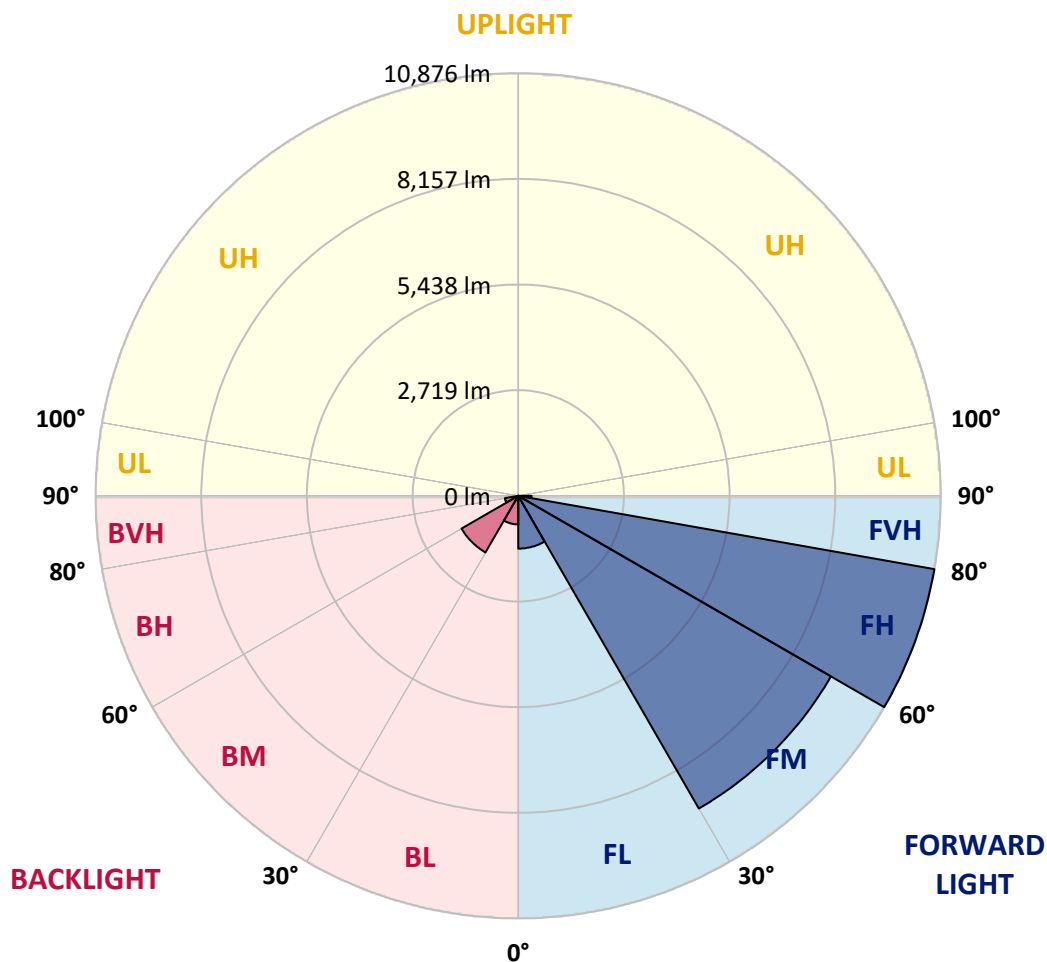
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1358.5	5.5			
FM	(30°-60°)	9293.3	37.7			
FH	(60°-80°)	10875.7	44.1			G4/12000
FVH	(80°-90°)	343.0	1.4			G3/500
BL	(0°-30°)	737.0	3.0	B2/1000		
BM	(30°-60°)	1683.8	6.8	B2/2500		
BH	(60°-80°)	348.0	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3571.7	3571.7	3571.7	3571.7	3571.7	3571.7	3571.7	3571.7	3571.7	3571.7	3571.7
2.5°	3412.8	3441.7	3447.2	3456.2	3456.2	3467.1	3485.1	3510.3	3551.9	3573.6	3588.0
5°	3145.6	3167.2	3194.3	3216.0	3257.6	3263.0	3333.4	3402.0	3497.7	3570.0	3620.5
7.5°	2876.6	2901.8	2938.0	2990.3	3044.5	3060.8	3167.2	3282.9	3434.5	3570.0	3654.8
10°	2686.9	2688.8	2721.3	2773.6	2860.3	2880.1	3010.1	3174.5	3364.0	3548.2	3687.3
12.5°	2580.4	2593.0	2607.5	2647.2	2730.3	2742.9	2882.0	3075.2	3293.6	3535.6	3725.3
15°	2580.4	2589.5	2598.5	2618.4	2685.1	2696.0	2818.7	3012.0	3257.6	3541.1	3786.7
17.5°	2607.5	2622.0	2614.7	2638.1	2708.6	2715.8	2824.2	2993.9	3255.7	3575.4	3880.5
20°	2672.5	2683.3	2668.9	2683.3	2753.8	2768.2	2880.1	3028.3	3286.5	3635.0	3997.9
22.5°	2775.4	2780.8	2746.5	2757.4	2829.6	2847.7	2977.6	3125.7	3360.5	3730.7	4155.0
25°	2905.5	2916.2	2864.0	2876.6	2945.1	2966.9	3116.7	3272.0	3477.8	3862.5	4355.4
27.5°	3055.3	3060.8	3015.5	3013.8	3102.3	3132.9	3284.6	3452.6	3635.0	4028.6	4608.3
30°	3226.9	3243.1	3199.7	3192.6	3304.5	3329.8	3479.7	3674.7	3866.1	4277.8	4967.6
32.5°	3362.3	3374.9	3349.6	3367.7	3481.5	3501.3	3716.2	3988.9	4229.0	4631.8	5456.9
35°	3557.3	3564.5	3506.7	3539.2	3669.3	3719.8	4039.4	4429.4	4685.9	5075.9	6096.2
37.5°	4263.4	4263.4	4017.8	3857.1	3981.6	4026.8	4481.8	4983.9	5249.3	5671.8	6901.5
40°	5240.2	5224.0	4864.6	4536.0	4519.7	4608.3	5112.1	5682.7	5977.0	6386.9	7808.0
42.5°	6282.1	6256.9	5767.6	5442.5	5388.3	5419.1	5839.7	6544.0	6843.7	7259.0	8783.1
45°	7206.7	7199.5	6751.7	6314.7	6217.1	6314.7	6748.1	7551.6	7766.5	8203.5	9756.4
47.5°	7981.4	7981.4	7654.5	7369.2	7318.7	7376.4	7977.8	8669.3	8649.5	9209.3	10704.4
50°	8873.4	8866.1	8555.6	8432.8	8485.2	8566.4	9393.4	9846.7	9563.1	10197.0	11551.3
52.5°	9498.2	9541.5	9435.0	9415.1	9682.4	9823.2	10830.9	10998.8	10381.2	11134.2	12185.1
55°	9992.9	10043.6	10166.4	10305.3	10820.0	11004.2	12223.0	12091.2	11065.6	11946.8	12549.9
57.5°	10693.6	10621.4	10811.0	11085.5	11917.9	12140.0	13571.9	13122.4	11616.3	12605.9	12589.7
60°	11544.1	11554.9	11587.4	11934.2	13014.0	13299.3	14900.9	14097.4	11970.3	13010.3	12149.0
62.5°	12566.1	12582.4	12649.2	13181.9	14485.6	14754.7	16316.7	14895.5	12132.7	12896.6	11011.4
65°	12495.7	12564.3	13310.1	15132.1	16723.0	16988.4	17968.9	15455.4	11887.2	11856.5	8965.5
67.5°	11383.3	11495.4	12743.1	17461.5	20096.0	20392.2	19966.1	15565.4	10827.2	9220.1	5848.8
70°	9924.4	9964.0	11464.6	19556.2	24001.9	24301.6	21753.8	14353.8	8216.1	5142.7	2620.1
72.5°	7750.2	7759.2	9519.9	20041.9	26121.8	26138.1	20350.7	10655.7	4418.7	1975.5	910.1
75°	5536.4	5482.2	6376.1	16253.4	22981.6	23165.8	15256.7	4998.3	1688.4	933.6	453.3
77.5°	2968.6	3028.3	3607.9	9639.0	15876.0	16190.3	8324.4	1440.9	859.6	635.6	299.7
80°	917.3	967.9	1478.9	4413.2	8992.6	9182.2	3086.0	641.0	599.5	453.3	196.8
82.5°	288.9	299.7	689.8	1854.5	3732.4	3819.2	893.8	363.0	409.9	299.7	115.5
85°	83.0	84.9	307.0	691.6	922.7	940.7	251.0	140.8	234.7	186.0	59.6
87.5°	9.0	28.9	115.5	115.5	81.3	79.4	27.1	30.6	66.8	23.5	10.9
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°	3571.7	3571.7	3571.7	3571.7	3571.7	3571.7	3571.7	3571.7	3571.7	3571.7	3571.7
2.5°	3579.0	3580.7	3557.3	3517.6	3474.2	3438.2	3393.0	3356.9	3331.6	3324.4	3337.0
5°	3604.2	3591.6	3524.8	3403.8	3259.4	3134.8	2995.8	2885.6	2813.3	2782.7	2793.4
7.5°	3642.1	3606.1	3459.8	3221.5	2945.1	2699.5	2450.4	2257.2	2134.4	2073.0	2082.0
10°	3674.7	3602.5	3351.4	2957.8	2535.2	2163.3	1827.4	1594.5	1464.4	1403.0	1404.9
12.5°	3705.4	3600.6	3210.6	2645.4	2073.0	1618.0	1305.5	1190.0	1153.8	1141.2	1137.6
15°	3763.2	3606.1	3033.7	2287.9	1612.5	1222.5	1108.7	1106.9	1114.2	1110.5	1108.7
17.5°	3842.6	3611.5	2833.2	1908.7	1244.1	1078.0	1072.6	1088.9	1099.7	1094.3	1092.4
20°	3945.5	3633.1	2620.1	1533.1	1069.0	1041.9	1054.5	1069.0	1078.0	1069.0	1067.2
22.5°	4090.0	3671.0	2387.2	1231.5	1013.0	1020.3	1031.0	1047.3	1056.4	1043.8	1041.9
25°	4267.0	3730.7	2157.8	1070.8	985.9	995.0	1011.3	1029.3	1040.1	1027.5	1025.6
27.5°	4496.3	3826.3	1946.6	1034.7	958.9	964.2	987.7	1014.9	1029.3	1013.0	1013.0
30°	4828.6	3983.5	1764.2	1050.9	942.6	930.0	962.5	1000.4	1016.6	1002.1	1000.4
32.5°	5269.1	4205.6	1652.3	1076.2	935.4	890.2	921.0	969.6	996.8	987.7	987.7
35°	5847.0	4543.2	1608.9	1105.2	930.0	848.7	870.3	922.7	969.6	978.7	978.7
37.5°	6547.6	5012.8	1621.6	1117.8	913.7	814.4	825.2	870.3	931.7	960.6	967.9
40°	7343.9	5559.9	1693.8	1105.2	895.6	785.5	787.3	821.6	875.8	919.1	933.6
42.5°	8165.6	6199.1	1827.4	1058.2	879.3	760.2	754.8	778.3	814.4	845.1	857.7
45°	8947.4	6856.4	1959.2	993.1	859.6	734.9	722.3	731.3	738.5	751.2	758.4
47.5°	9630.0	7318.7	1921.3	933.6	832.4	706.0	684.4	680.8	659.1	657.3	655.5
50°	10101.3	7419.8	1706.4	874.0	792.7	673.5	639.2	617.6	579.6	561.6	563.3
52.5°	10251.2	7020.7	1394.0	814.4	727.7	630.2	581.5	547.1	500.2	483.9	482.2
55°	10052.6	6238.9	1114.2	742.2	637.4	572.5	518.2	473.1	435.2	415.3	415.3
57.5°	9566.8	5243.9	881.2	657.3	541.7	507.4	453.3	408.1	375.6	355.8	352.1
60°	8761.5	4164.1	697.0	556.2	462.3	437.0	381.0	352.1	323.2	299.7	294.4
62.5°	7539.0	2972.3	547.1	440.6	386.4	357.5	325.0	303.4	269.1	236.6	231.1
65°	5883.1	1818.4	422.5	323.2	310.6	296.1	276.2	256.5	214.8	182.3	176.9
67.5°	3710.8	861.3	301.6	243.7	245.6	238.3	229.3	213.1	182.3	153.4	149.9
70°	1634.2	417.2	198.6	186.0	182.3	182.3	189.6	184.2	155.3	128.2	122.8
72.5°	556.2	224.0	148.1	140.8	131.8	130.0	158.9	153.4	124.6	99.3	93.9
75°	290.7	149.9	108.3	101.2	79.4	95.7	126.4	119.2	88.5	65.0	59.6
77.5°	189.6	106.5	74.0	65.0	45.1	63.2	93.9	83.0	52.4	32.5	28.9
80°	119.2	70.4	43.4	30.6	21.6	34.3	50.5	36.1	19.9	7.2	5.4
82.5°	63.2	36.1	16.3	10.9	9.0	10.9	12.6	9.0	3.6	0.0	0.0
85°	25.3	12.6	5.4	3.6	1.8	0.0	3.6	1.8	0.0	0.0	0.0
87.5°	9.0	1.8	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)