

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: P969847

Luminaire Tested: **NAV-SB6A-735-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969847
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-SB6A-735-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 350mA 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: 21110.9 lumens
Efficiency: N/A
Efficacy: 123.5 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): 170.9
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



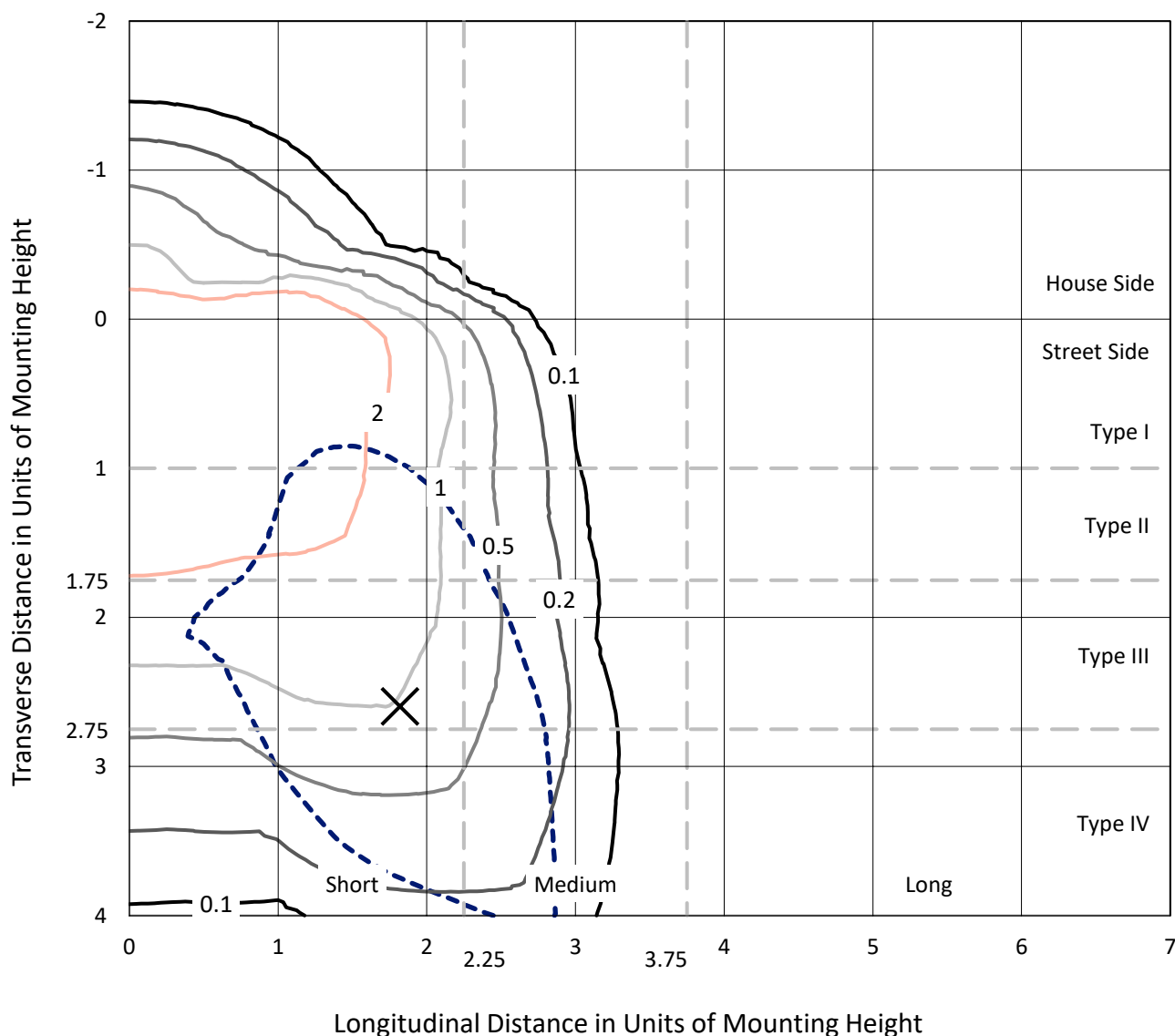
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

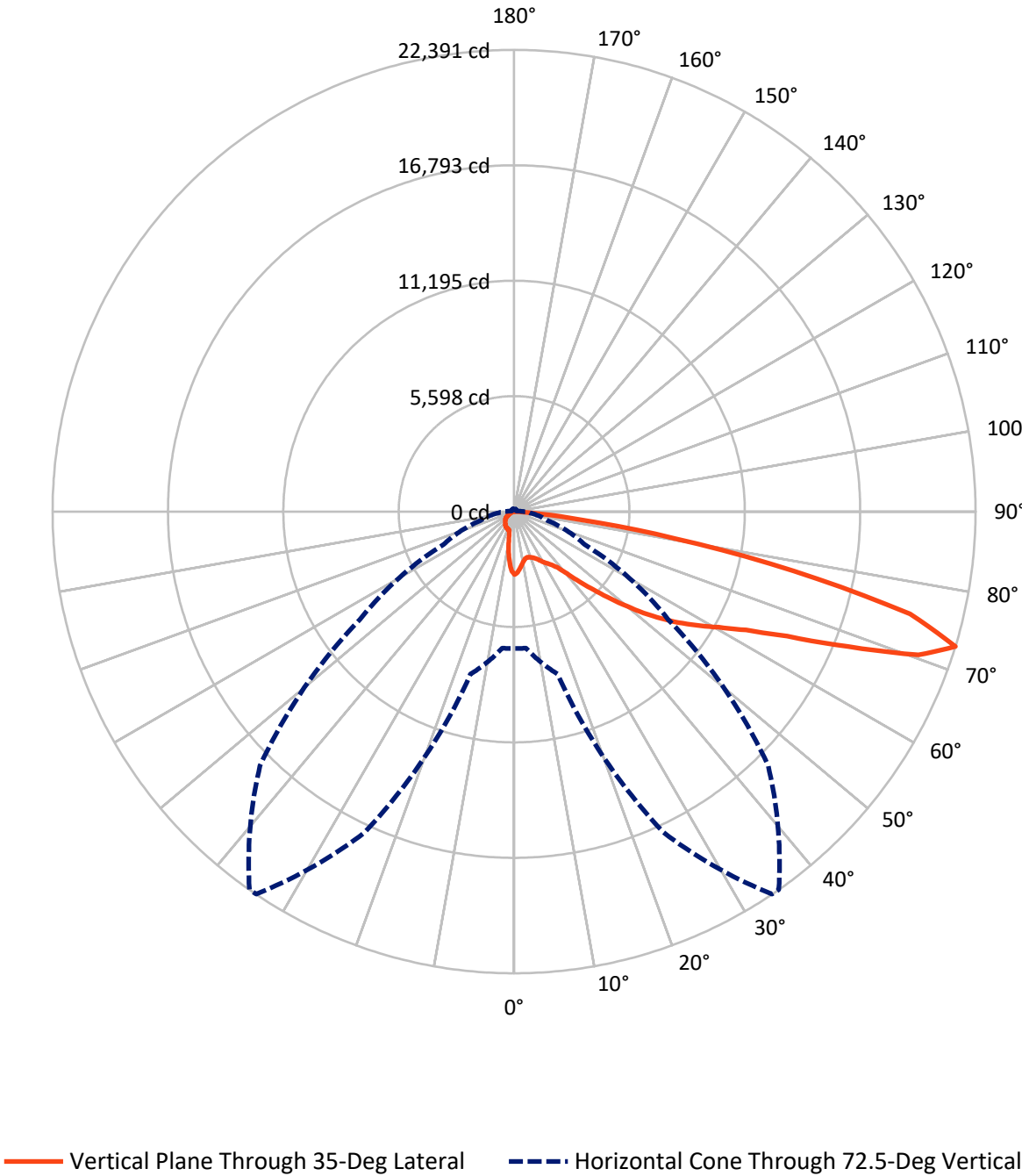


Based on 25 foot mounting height. Maximum calculated value = 4.9 fc

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	2375.9	0.0	2375.9
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	18735.0	0.0	18735.0
	% Fixture	88.7	0.0	88.7
Total	Lumens	21110.9	0.0	21110.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.4	1.2
10°-20°	588.2	2.8
20°-30°	955.5	4.5
30°-40°	1594.2	7.6
40°-50°	3016.3	14.3
50°-60°	4792.8	22.7
60°-70°	5929.1	28.1
70°-80°	3685.6	17.5
80°-90°	297.9	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°	21110.9	100.0
0°-180°	21110.9	100.0

Coefficient of Utilization



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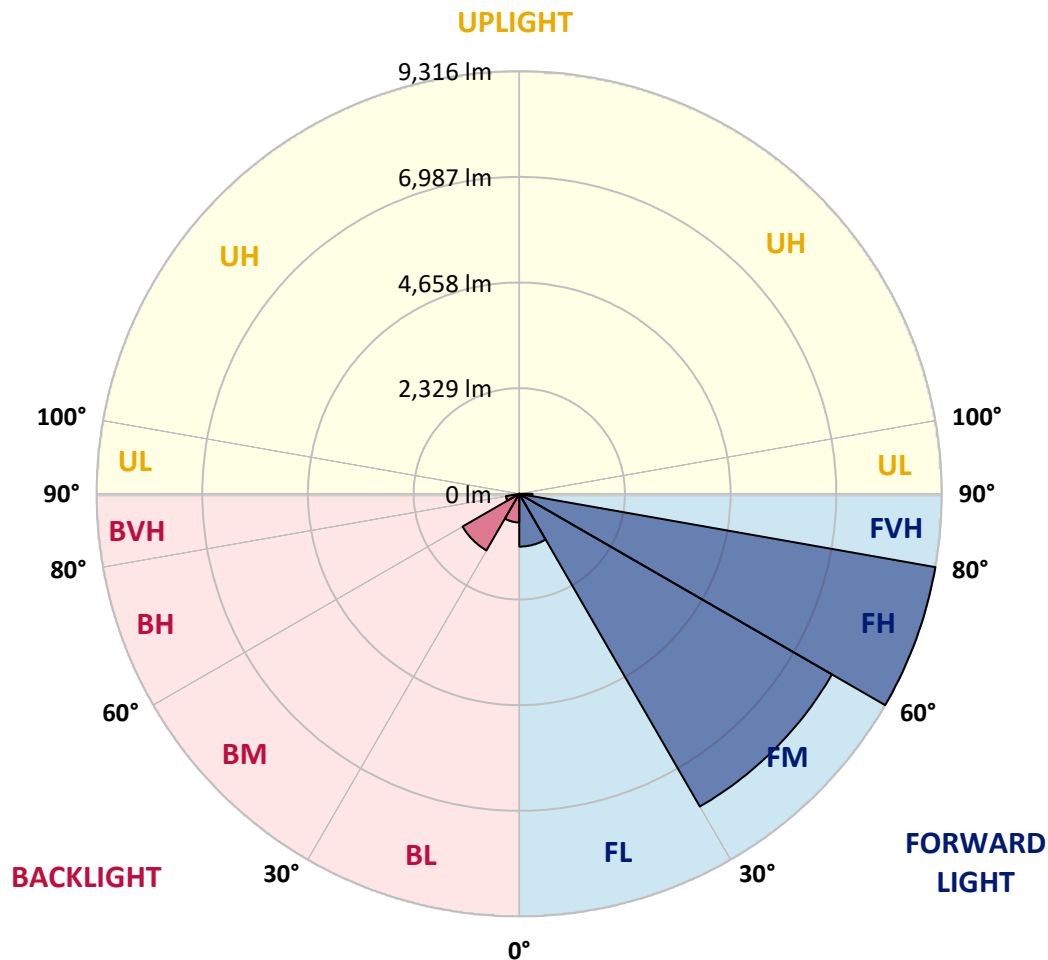
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1163.7	5.5			
FM	(30°-60°)	7960.9	37.7			
FH	(60°-80°)	9316.5	44.1			G4/12000
FVH	(80°-90°)	293.8	1.4			G3/500
BL	(0°-30°)	631.3	3.0	B2/1000		
BM	(30°-60°)	1442.4	6.8	B2/2500		
BH	(60°-80°)	298.1	1.4	B1/500		G1/500
BVH	(80°-90°)	4.1	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°	3059.7	3059.7	3059.7	3059.7	3059.7	3059.7	3059.7	3059.7	3059.7	3059.7	3059.7
2.5°	2923.5	2948.3	2952.9	2960.7	2960.7	2969.9	2985.4	3007.0	3042.7	3061.3	3073.6
5°	2694.6	2713.2	2736.3	2755.0	2790.6	2795.2	2855.4	2914.3	2996.3	3058.1	3101.4
7.5°	2464.1	2485.8	2516.7	2561.6	2608.0	2622.0	2713.2	2812.2	2942.2	3058.1	3130.9
10°	2301.7	2303.3	2331.2	2376.0	2450.3	2467.3	2578.6	2719.3	2881.8	3039.5	3158.6
12.5°	2210.4	2221.3	2233.7	2267.7	2338.8	2349.7	2468.8	2634.2	2821.4	3028.8	3191.1
15°	2210.4	2218.2	2225.9	2242.9	2300.2	2309.4	2414.6	2580.1	2790.6	3033.4	3243.7
17.5°	2233.7	2246.1	2239.8	2259.9	2320.3	2326.4	2419.3	2564.7	2789.0	3062.8	3324.2
20°	2289.3	2298.7	2286.3	2298.7	2358.9	2371.3	2467.3	2594.1	2815.3	3113.8	3424.7
22.5°	2377.5	2382.2	2352.8	2362.0	2423.9	2439.4	2550.7	2677.6	2878.7	3195.8	3559.3
25°	2488.9	2498.1	2453.3	2464.1	2522.9	2541.5	2669.9	2802.9	2979.3	3308.7	3731.0
27.5°	2617.2	2622.0	2583.2	2581.7	2657.5	2683.8	2813.7	2957.5	3113.8	3451.1	3947.6
30°	2764.2	2778.2	2741.1	2734.8	2830.7	2852.4	2980.8	3147.9	3311.8	3664.5	4255.4
32.5°	2880.2	2891.1	2869.4	2884.9	2982.3	2999.4	3183.4	3417.0	3622.8	3967.7	4674.6
35°	3047.3	3053.5	3004.0	3031.8	3143.2	3186.5	3460.3	3794.4	4014.1	4348.3	5222.2
37.5°	3652.1	3652.1	3441.7	3304.1	3410.8	3449.5	3839.3	4269.3	4496.7	4858.7	5912.1
40°	4489.0	4475.0	4167.2	3885.7	3871.7	3947.6	4379.1	4867.9	5120.1	5471.2	6688.6
42.5°	5381.5	5359.8	4940.6	4662.2	4615.8	4642.1	5002.5	5605.8	5862.6	6218.4	7523.9
45°	6173.5	6167.3	5783.7	5409.3	5325.8	5409.3	5780.6	6469.0	6653.1	7027.4	8357.6
47.5°	6837.1	6837.1	6557.1	6312.7	6269.4	6318.9	6834.0	7426.4	7409.4	7888.9	9169.8
50°	7601.2	7595.0	7329.0	7223.8	7268.7	7338.3	8046.8	8435.0	8192.1	8735.0	9895.2
52.5°	8136.4	8173.6	8082.3	8065.3	8294.2	8414.8	9278.0	9421.9	8892.9	9537.9	10438.2
55°	8560.3	8603.6	8708.8	8827.9	9268.8	9426.5	10470.7	10357.7	9479.1	10234.0	10750.6
57.5°	9160.4	9098.6	9261.0	9496.1	10209.2	10399.5	11626.2	11241.0	9950.9	10798.6	10784.6
60°	9889.0	9898.3	9926.2	10223.1	11148.2	11392.6	12764.6	12076.2	10254.1	11145.1	10407.2
62.5°	10764.6	10778.5	10835.7	11292.0	12408.9	12639.4	13977.4	12760.0	10393.3	11047.7	9432.7
65°	10704.3	10763.0	11401.9	12962.7	14325.4	14552.8	15392.7	13239.5	10183.0	10156.6	7680.1
67.5°	9751.3	9847.3	10916.1	14958.0	17215.0	17468.7	17103.6	13333.9	9274.9	7898.2	5010.3
70°	8501.6	8535.6	9820.9	16752.4	20560.8	20817.5	18634.9	12295.9	7038.2	4405.4	2244.4
72.5°	6639.1	6646.8	8155.0	17168.5	22376.8	22390.7	17433.0	9128.0	3785.1	1692.3	779.6
75°	4742.7	4696.2	5461.9	13923.2	19686.8	19844.6	13069.4	4281.7	1446.3	799.7	388.3
77.5°	2543.0	2594.1	3090.6	8257.1	13599.9	13869.1	7131.0	1234.4	736.3	544.5	256.8
80°	785.8	829.1	1266.9	3780.5	7703.3	7865.7	2643.6	549.1	513.5	388.3	168.6
82.5°	247.5	256.8	590.9	1588.6	3197.4	3271.6	765.7	310.9	351.2	256.8	99.0
85°	71.1	72.7	263.0	592.4	790.5	806.0	215.0	120.6	201.1	159.3	51.0
87.5°	7.7	24.7	99.0	99.0	69.6	68.1	23.2	26.3	57.2	20.1	9.3
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°	3059.7	3059.7	3059.7	3059.7	3059.7	3059.7	3059.7	3059.7	3059.7	3059.7	3059.7
2.5°	3065.9	3067.4	3047.3	3013.3	2976.2	2945.2	2906.5	2875.6	2853.9	2847.8	2858.6
5°	3087.5	3076.7	3019.4	2915.8	2792.1	2685.3	2566.2	2471.9	2410.0	2383.7	2393.0
7.5°	3120.0	3089.0	2963.8	2759.6	2522.9	2312.5	2099.1	1933.6	1828.4	1775.8	1783.5
10°	3147.9	3086.0	2870.9	2533.7	2171.8	1853.1	1565.4	1365.9	1254.5	1201.9	1203.5
12.5°	3174.1	3084.4	2750.3	2266.2	1775.8	1386.0	1118.4	1019.4	988.4	977.6	974.5
15°	3223.6	3089.0	2598.7	1959.9	1381.3	1047.2	949.8	948.2	954.4	951.3	949.8
17.5°	3291.7	3093.8	2427.0	1635.0	1065.8	923.4	918.8	932.7	942.1	937.4	935.8
20°	3379.8	3112.3	2244.4	1313.2	915.7	892.6	903.3	915.7	923.4	915.7	914.2
22.5°	3503.7	3144.8	2045.0	1054.9	867.8	874.0	883.2	897.2	904.9	894.1	892.6
25°	3655.3	3195.8	1848.5	917.3	844.6	852.3	866.2	881.7	891.0	880.2	878.6
27.5°	3851.6	3277.7	1667.5	886.3	821.3	826.0	846.1	869.3	881.7	867.8	867.8
30°	4136.3	3412.3	1511.3	900.3	807.5	796.6	824.5	857.0	870.8	858.5	857.0
32.5°	4513.7	3602.7	1415.4	921.9	801.2	762.6	788.9	830.7	853.8	846.1	846.1
35°	5008.7	3891.9	1378.2	946.7	796.6	727.0	745.6	790.5	830.7	838.3	838.3
37.5°	5608.9	4294.0	1389.1	957.5	782.7	697.6	706.9	745.6	798.2	823.0	829.1
40°	6291.0	4762.8	1451.0	946.7	767.2	672.9	674.4	703.9	750.2	787.3	799.7
42.5°	6994.9	5310.3	1565.4	906.4	753.3	651.2	646.6	666.7	697.6	724.0	734.7
45°	7664.6	5873.5	1678.3	850.7	736.3	629.6	618.8	626.5	632.6	643.5	649.6
47.5°	8249.4	6269.4	1645.8	799.7	713.1	604.9	586.3	583.1	564.6	563.0	561.5
50°	8653.2	6356.0	1461.8	748.7	679.1	577.0	547.6	529.0	496.5	481.0	482.6
52.5°	8781.5	6014.2	1194.1	697.6	623.4	539.9	498.0	468.7	428.4	414.5	413.0
55°	8611.3	5344.3	954.4	635.8	546.0	490.4	443.9	405.3	372.8	355.8	355.8
57.5°	8195.2	4492.1	754.9	563.0	464.0	434.7	388.3	349.6	321.7	304.7	301.7
60°	7505.4	3567.0	597.1	476.4	396.0	374.3	326.4	301.7	276.9	256.8	252.2
62.5°	6458.1	2546.1	468.7	377.4	331.1	306.3	278.4	259.8	230.5	202.6	198.0
65°	5039.6	1557.7	361.9	276.9	266.1	253.7	236.7	219.7	184.1	156.2	151.6
67.5°	3178.8	737.9	258.3	208.8	210.3	204.2	196.5	182.6	156.2	131.5	128.4
70°	1399.9	357.3	170.1	159.3	156.2	156.2	162.5	157.7	133.0	109.8	105.2
72.5°	476.4	191.8	126.8	120.6	113.0	111.4	136.1	131.5	106.7	85.1	80.5
75°	249.1	128.4	92.8	86.6	68.1	82.0	108.2	102.1	75.7	55.7	51.0
77.5°	162.5	91.2	63.4	55.7	38.6	54.1	80.5	71.1	44.9	27.9	24.7
80°	102.1	60.4	37.1	26.3	18.6	29.4	43.4	31.0	17.0	6.1	4.6
82.5°	54.1	31.0	13.9	9.3	7.7	9.3	10.9	7.7	3.1	0.0	0.0
85°	21.6	10.9	4.6	3.1	1.5	0.0	3.1	1.5	0.0	0.0	0.0
87.5°	7.7	1.5	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)