

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: P884590

Luminaire Tested: **NAV-SB5C-722-U-T4FT-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884590
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5C-722-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22929 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

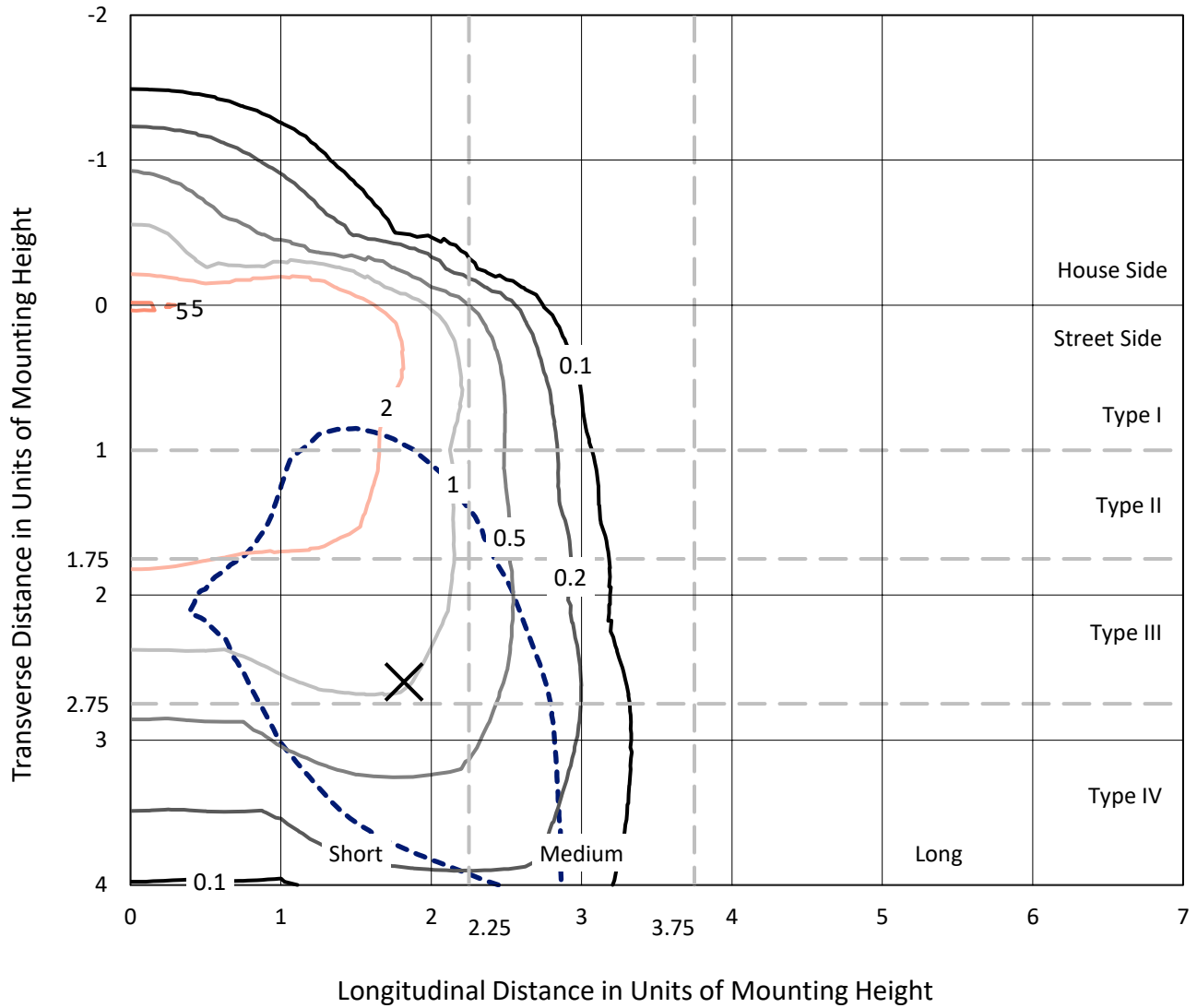
Input Watts (W): 249.5
Input Voltage (V): 120.0
Input Current (Ain): 2.116
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 7.885
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

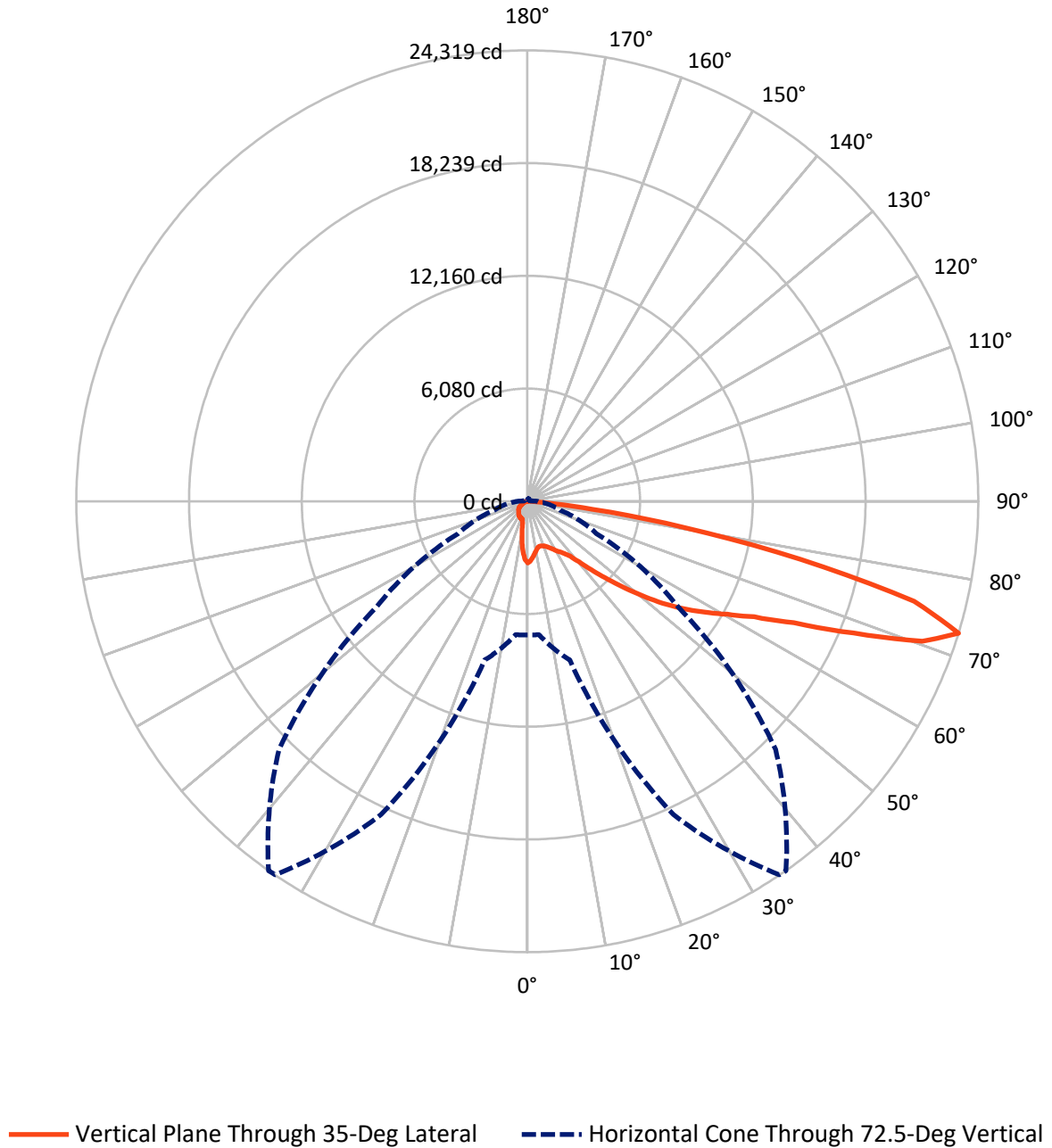
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	2580.5	0.0	2580.5
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	20348.4	0.0	20348.4
	% Fixture	88.7	0.0	88.7
Total	Lumens	22929.0	0.0	22929.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.1	1.2
10°-20°	638.8	2.8
20°-30°	1037.8	4.5
30°-40°	1731.5	7.6
40°-50°	3276.0	14.3
50°-60°	5205.6	22.7
60°-70°	6439.7	28.1
70°-80°	4003.0	17.5
80°-90°	323.5	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°	22929.0	100.0
0°-180°	22929.0	100.0

Coefficient of Utilization



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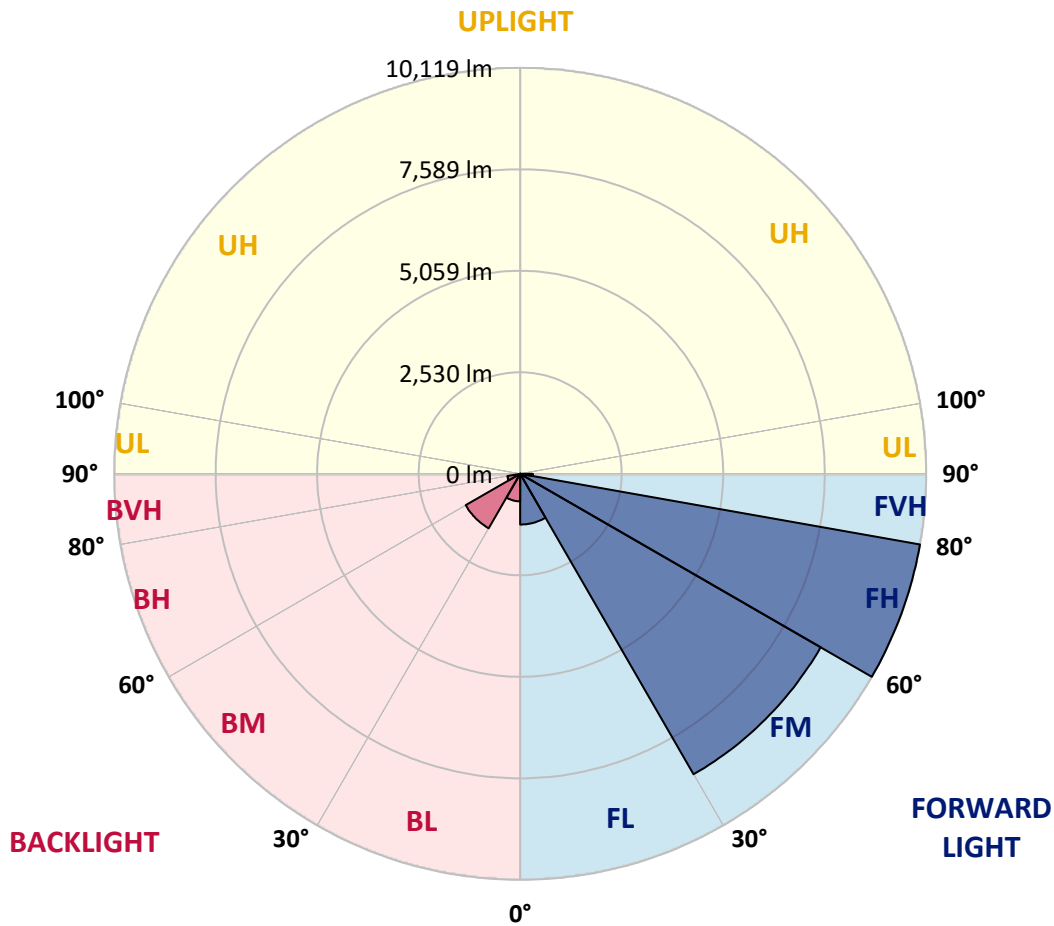
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1264.0	5.5			
FM (30°-60°)	8646.5	37.7			
FH (60°-80°)	10118.8	44.1			G4/12000
FVH (80°-90°)	319.1	1.4			G3/500
BL (0°-30°)	685.7	3.0	B2/1000		
BM (30°-60°)	1566.6	6.8	B2/2500		
BH (60°-80°)	323.8	1.4	B1/500		G1/500
BVH (80°-90°)	4.4	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3323.2	3323.2	3323.2	3323.2	3323.2	3323.2	3323.2	3323.2	3323.2	3323.2	3323.2
2.5°	3175.3	3202.2	3207.3	3215.7	3215.7	3225.7	3242.5	3266.1	3304.7	3324.9	3338.3
5°	2926.7	2946.8	2972.0	2992.2	3030.8	3035.9	3101.4	3165.3	3254.3	3321.5	3368.5
7.5°	2676.4	2699.9	2733.5	2782.2	2832.6	2847.7	2946.8	3054.4	3195.5	3321.5	3400.5
10°	2499.9	2501.6	2531.9	2580.6	2661.2	2679.7	2800.7	2953.6	3130.0	3301.3	3430.7
12.5°	2400.8	2412.6	2426.0	2463.0	2540.3	2552.0	2681.4	2861.2	3064.4	3289.6	3466.0
15°	2400.8	2409.2	2417.6	2436.1	2498.3	2508.3	2622.6	2802.4	3030.8	3294.6	3523.1
17.5°	2426.0	2439.5	2432.7	2454.6	2520.1	2526.8	2627.6	2785.6	3029.2	3326.5	3610.5
20°	2486.5	2496.6	2483.1	2496.6	2562.1	2575.5	2679.7	2817.5	3057.7	3382.0	3719.7
22.5°	2582.3	2587.3	2555.4	2565.5	2632.7	2649.5	2770.4	2908.2	3126.6	3471.0	3865.8
25°	2703.2	2713.3	2664.6	2676.4	2740.2	2760.4	2899.8	3044.3	3235.8	3593.7	4052.3
27.5°	2842.7	2847.7	2805.7	2804.0	2886.4	2914.9	3056.0	3212.3	3382.0	3748.2	4287.5
30°	3002.3	3017.4	2977.1	2970.4	3074.5	3098.1	3237.5	3418.9	3597.0	3980.1	4621.9
32.5°	3128.3	3140.1	3116.5	3133.3	3239.2	3257.7	3457.6	3711.3	3934.7	4309.4	5077.2
35°	3309.7	3316.5	3262.7	3292.9	3413.9	3460.9	3758.3	4121.2	4359.8	4722.7	5671.9
37.5°	3966.6	3966.6	3738.2	3588.6	3704.6	3746.6	4169.9	4637.0	4884.0	5277.1	6421.2
40°	4875.6	4860.4	4526.1	4220.3	4205.2	4287.5	4756.3	5287.2	5561.0	5942.4	7264.6
42.5°	5845.0	5821.4	5366.1	5063.7	5013.3	5041.9	5433.4	6088.6	6367.5	6753.9	8171.9
45°	6705.2	6698.4	6281.8	5875.2	5784.5	5875.2	6278.4	7026.1	7226.0	7632.6	9077.4
47.5°	7425.9	7425.9	7121.8	6856.4	6809.3	6863.1	7422.6	8066.0	8047.5	8568.4	9959.5
50°	8255.9	8249.1	7960.2	7845.9	7894.7	7970.3	8739.7	9161.4	8897.7	9487.4	10747.4
52.5°	8837.2	8877.5	8778.4	8759.9	9008.5	9139.6	10077.1	10233.3	9658.7	10359.3	11337.1
55°	9297.5	9344.6	9458.8	9588.2	10067.0	10238.4	11372.4	11249.8	10295.5	11115.4	11676.5
57.5°	9949.4	9882.2	10058.6	10314.0	11088.5	11295.1	12627.4	12209.1	10807.9	11728.6	11713.5
60°	10740.7	10750.8	10781.0	11103.6	12108.3	12373.7	13863.9	13116.3	11137.2	12104.9	11303.5
62.5°	11691.6	11706.7	11768.9	12264.5	13477.5	13727.9	15181.1	13858.9	11288.4	11999.1	10245.1
65°	11626.1	11689.9	12383.8	14079.0	15559.1	15806.1	16718.4	14379.7	11059.9	11031.3	8341.6
67.5°	10591.2	10695.3	11856.3	16246.3	18697.5	18973.0	18576.5	14482.2	10073.7	8578.4	5441.8
70°	9233.7	9270.6	10666.8	18195.2	22331.5	22610.4	20239.8	13354.9	7644.3	4784.8	2437.8
72.5°	7210.9	7219.3	8857.3	18647.1	24303.9	24319.0	18934.4	9914.1	4111.1	1838.0	846.8
75°	5151.1	5100.7	5932.3	15122.3	21382.3	21553.6	14194.9	4650.4	1570.9	868.6	421.7
77.5°	2762.0	2817.5	3356.8	8968.2	14771.2	15063.5	7745.1	1340.7	799.7	591.4	278.9
80°	853.5	900.5	1376.0	4106.1	8366.8	8543.2	2871.2	596.4	557.8	421.7	183.1
82.5°	268.8	278.9	641.8	1725.4	3472.7	3553.4	831.6	337.7	381.4	278.9	107.5
85°	77.3	79.0	285.6	643.5	858.5	875.3	233.5	131.0	218.4	173.0	55.4
87.5°	8.4	26.9	107.5	107.5	75.6	73.9	25.2	28.6	62.2	21.8	10.1
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°	3323.2	3323.2	3323.2	3323.2	3323.2	3323.2	3323.2	3323.2	3323.2	3323.2	3323.2
2.5°	3329.9	3331.6	3309.7	3272.8	3232.5	3198.9	3156.9	3123.3	3099.7	3093.0	3104.8
5°	3353.4	3341.7	3279.5	3166.9	3032.5	2916.6	2787.2	2684.8	2617.6	2589.0	2599.1
7.5°	3388.7	3355.1	3219.0	2997.2	2740.2	2511.7	2279.9	2100.1	1985.8	1928.7	1937.1
10°	3418.9	3351.7	3118.2	2752.0	2358.8	2012.7	1700.2	1483.5	1362.5	1305.4	1307.1
12.5°	3447.5	3350.1	2987.2	2461.3	1928.7	1505.3	1214.7	1107.2	1073.6	1061.8	1058.4
15°	3501.3	3355.1	2822.5	2128.7	1500.3	1137.4	1031.6	1029.9	1036.6	1033.2	1031.6
17.5°	3575.2	3360.1	2636.0	1775.8	1157.6	1003.0	998.0	1013.1	1023.2	1018.1	1016.4
20°	3671.0	3380.3	2437.8	1426.4	994.6	969.4	981.2	994.6	1003.0	994.6	992.9
22.5°	3805.4	3415.6	2221.1	1145.8	942.5	949.2	959.3	974.4	982.8	971.1	969.4
25°	3970.0	3471.0	2007.7	996.3	917.3	925.7	940.8	957.6	967.7	956.0	954.3
27.5°	4183.4	3560.1	1811.1	962.7	892.1	897.2	919.0	944.2	957.6	942.5	942.5
30°	4492.5	3706.2	1641.4	977.8	877.0	865.2	895.5	930.8	945.9	932.4	930.8
32.5°	4902.4	3912.9	1537.3	1001.3	870.3	828.3	856.8	902.2	927.4	919.0	919.0
35°	5440.1	4227.1	1496.9	1028.2	865.2	789.6	809.8	858.5	902.2	910.6	910.6
37.5°	6091.9	4663.9	1508.7	1040.0	850.1	757.7	767.8	809.8	866.9	893.8	900.5
40°	6832.8	5172.9	1575.9	1028.2	833.3	730.8	732.5	764.4	814.8	855.2	868.6
42.5°	7597.3	5767.7	1700.2	984.5	818.2	707.3	702.3	724.1	757.7	786.3	798.0
45°	8324.8	6379.2	1822.9	924.0	799.7	683.8	672.0	680.4	687.1	698.9	705.6
47.5°	8959.8	6809.3	1787.6	868.6	774.5	656.9	636.7	633.4	613.2	611.5	609.9
50°	9398.3	6903.4	1587.7	813.2	737.6	626.7	594.7	574.6	539.3	522.5	524.2
52.5°	9537.8	6532.1	1297.0	757.7	677.1	586.3	541.0	509.1	465.4	450.3	448.6
55°	9353.0	5804.6	1036.6	690.5	593.1	532.6	482.2	440.2	404.9	386.4	386.4
57.5°	8901.0	4878.9	819.9	611.5	504.0	472.1	421.7	379.7	349.5	331.0	327.6
60°	8151.7	3874.2	648.5	517.5	430.1	406.6	354.5	327.6	300.7	278.9	273.9
62.5°	7014.3	2765.4	509.1	409.9	359.5	332.7	302.4	282.3	250.3	220.1	215.0
65°	5473.7	1691.8	393.1	300.7	289.0	275.5	257.1	238.6	199.9	169.7	164.6
67.5°	3452.5	801.4	280.6	226.8	228.5	221.8	213.4	198.2	169.7	142.8	139.4
70°	1520.5	388.1	184.8	173.0	169.7	169.7	176.4	171.4	144.5	119.3	114.2
72.5°	517.5	208.3	137.8	131.0	122.6	121.0	147.8	142.8	115.9	92.4	87.4
75°	270.5	139.4	100.8	94.1	73.9	89.0	117.6	110.9	82.3	60.5	55.4
77.5°	176.4	99.1	68.9	60.5	42.0	58.8	87.4	77.3	48.7	30.2	26.9
80°	110.9	65.5	40.3	28.6	20.2	31.9	47.0	33.6	18.5	6.7	5.0
82.5°	58.8	33.6	15.1	10.1	8.4	10.1	11.8	8.4	3.4	0.0	0.0
85°	23.5	11.8	5.0	3.4	1.7	0.0	3.4	1.7	0.0	0.0	0.0
87.5°	8.4	1.7	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)