

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: P968702

Luminaire Tested: **NAV-SB5C-722-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968702
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5C-722-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24674.8 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

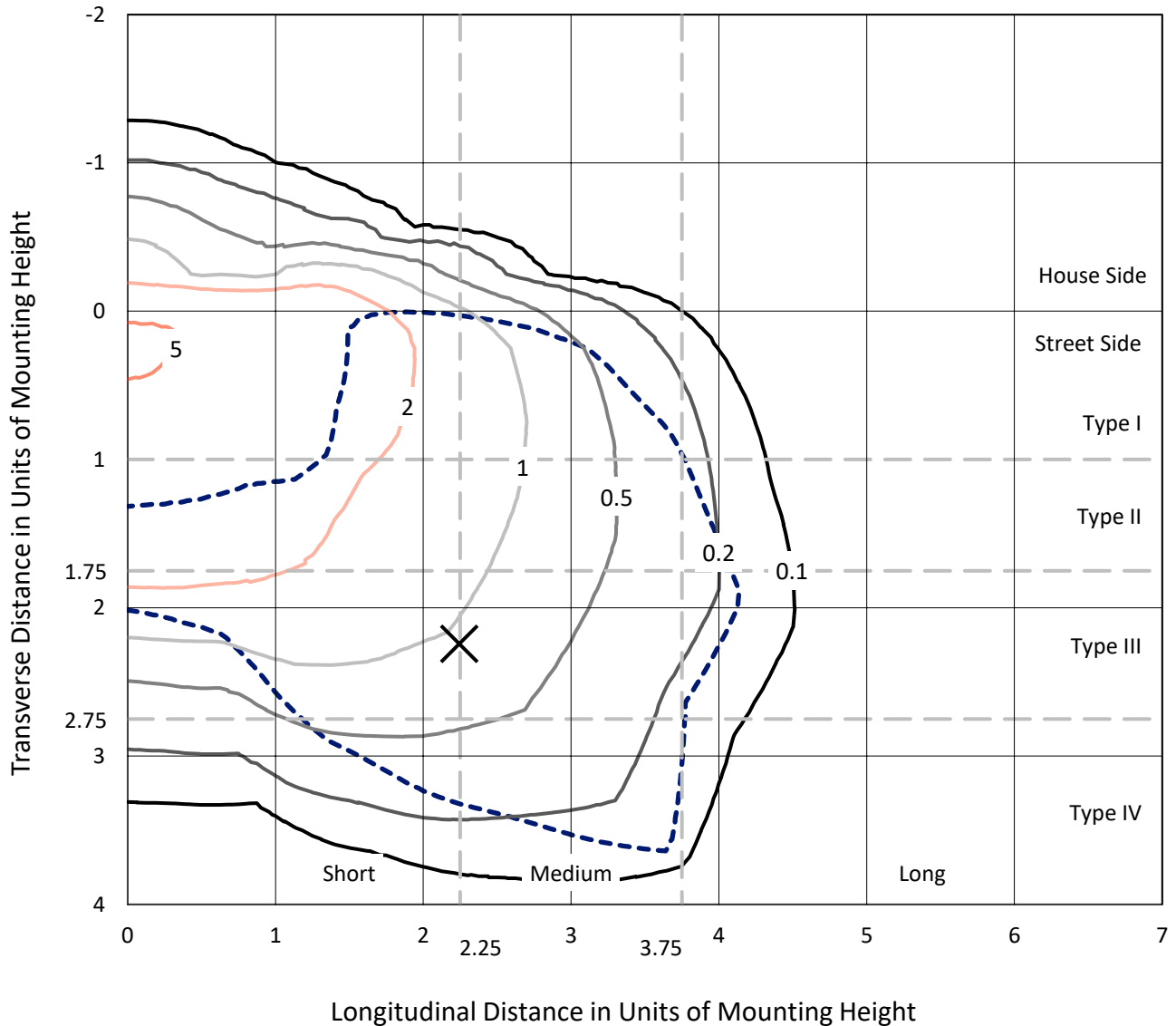
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

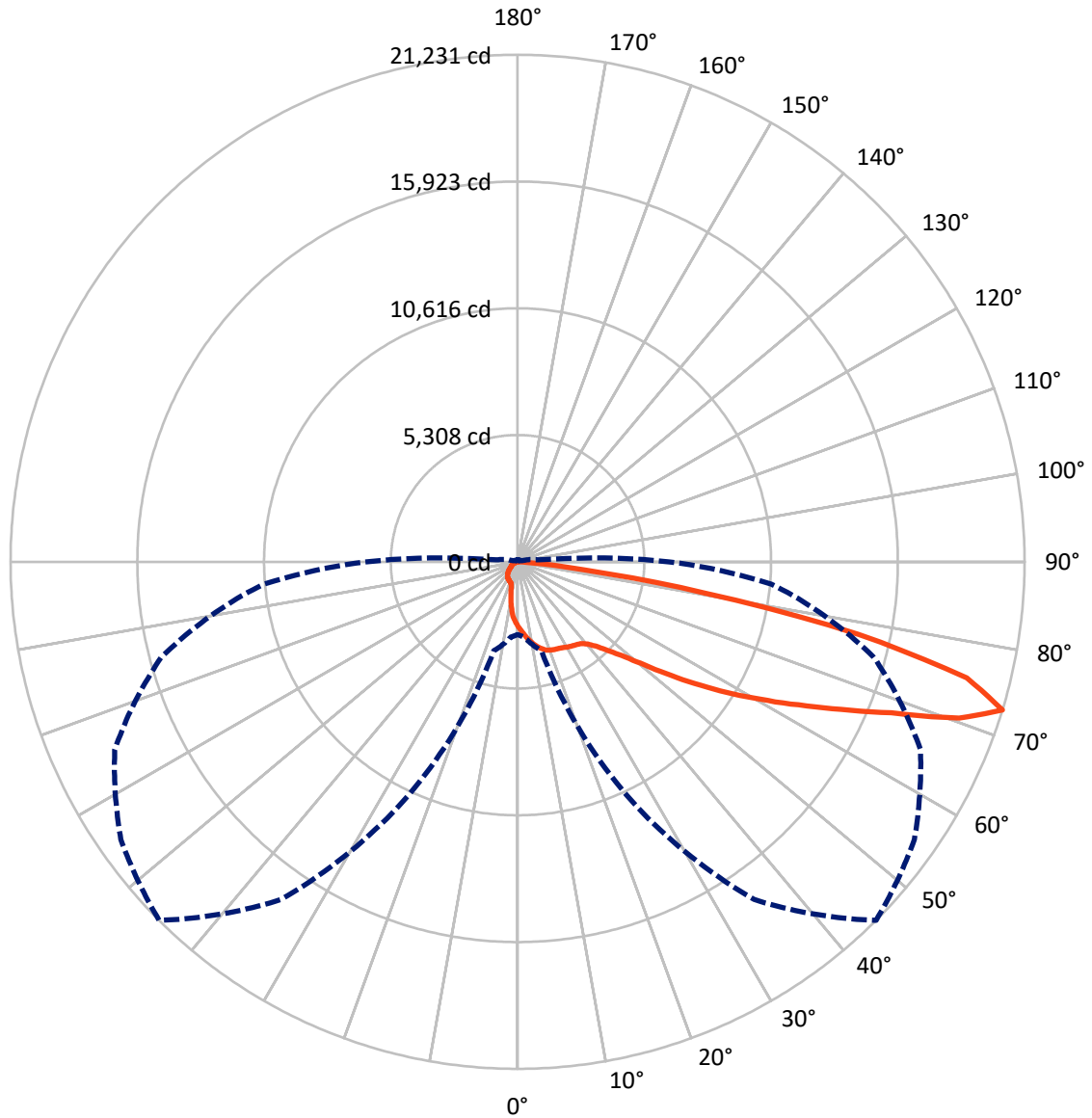
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2592.6	0.0	2592.6
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	22082.2	0.0	22082.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	24674.8	0.0	24674.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.7	1.0
10°-20°	744.4	3.0
20°-30°	1222.4	5.0
30°-40°	1733.6	7.0
40°-50°	2865.4	11.6
50°-60°	5147.5	20.9
60°-70°	7147.5	29.0
70°-80°	5184.6	21.0
80°-90°	374.8	1.5
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°	24674.8	100.0
0°-180°	24674.8	100.0

Coefficient of Utilization



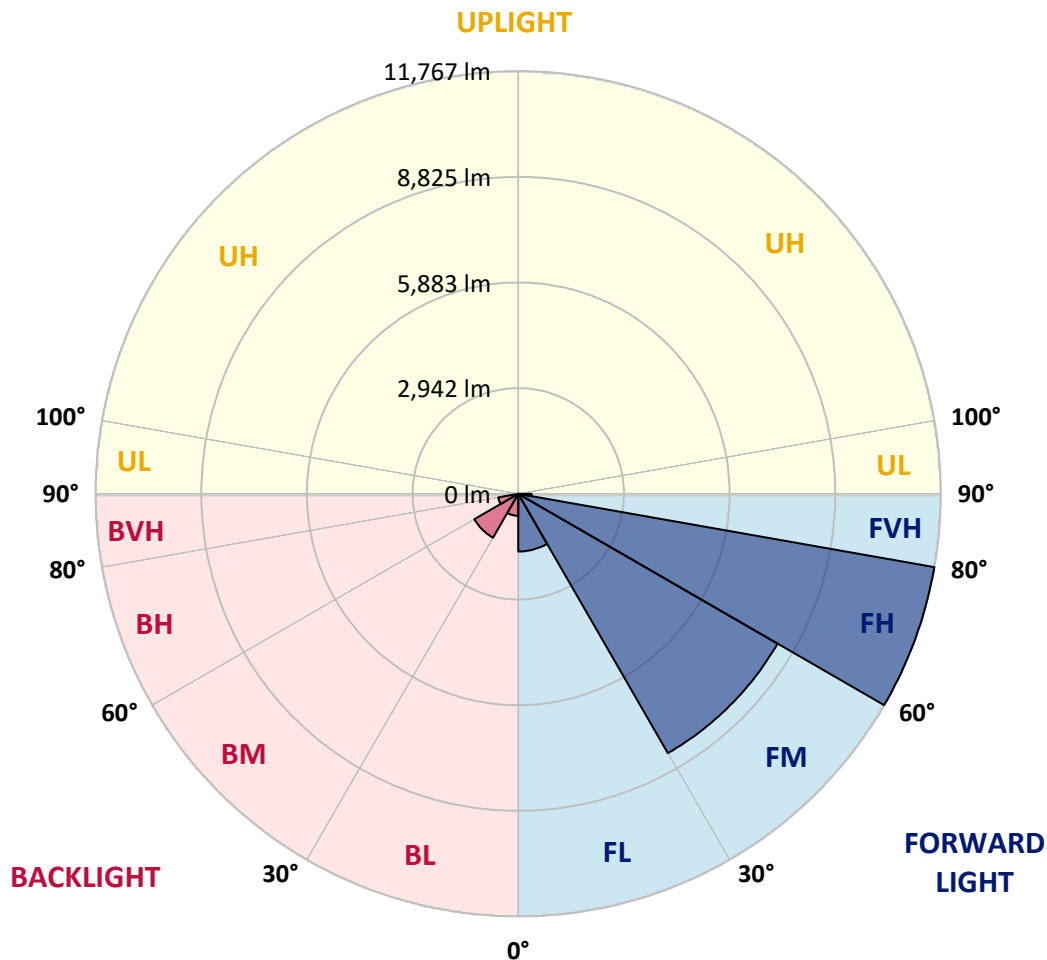
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1607.3	6.5			
FM (30°-60°)	8336.5	33.8			
FH (60°-80°)	11766.7	47.7			G4/12000
FVH (80°-90°)	371.7	1.5			G3/500
BL (0°-30°)	614.1	2.5	B2/1000		
BM (30°-60°)	1410.0	5.7	B2/2500		
BH (60°-80°)	565.4	2.3	B2/1000		G2/1000
BVH (80°-90°)	3.1	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°	35°	45°	46°	55°	65°	75°	85°
0°	2703.1	2703.1	2703.1	2703.1	2703.1	2703.1	2703.1	2703.1	2703.1	2703.1	2703.1
2.5°	2952.4	2957.5	2954.2	2934.0	2900.2	2881.7	2871.6	2837.9	2816.0	2777.2	2736.9
5°	3223.6	3243.8	3232.0	3191.6	3127.6	3082.2	3068.6	2999.6	2937.2	2864.9	2780.6
7.5°	3511.6	3521.7	3499.9	3447.6	3361.7	3284.2	3272.4	3176.5	3077.0	2965.9	2851.3
10°	3760.8	3772.6	3739.0	3663.1	3565.5	3469.5	3452.6	3346.5	3228.6	3092.2	2945.7
12.5°	3969.7	3981.5	3937.7	3846.7	3739.0	3639.6	3622.8	3511.6	3381.9	3230.4	3048.5
15°	4128.0	4149.9	4091.0	3993.3	3877.1	3777.7	3769.3	3659.9	3533.5	3365.1	3171.4
17.5°	4220.6	4242.6	4187.0	4069.0	3969.7	3885.5	3875.4	3784.4	3666.5	3504.9	3291.0
20°	4235.8	4256.0	4197.1	4094.4	4011.8	3944.4	3939.4	3873.7	3787.8	3632.9	3420.6
22.5°	4190.3	4215.6	4161.7	4079.2	4021.9	3986.5	3979.9	3942.8	3894.0	3762.6	3541.9
25°	4143.2	4163.4	4123.0	4050.6	4020.3	4016.9	4021.9	4015.2	4005.1	3894.0	3683.4
27.5°	4139.9	4161.7	4116.2	4047.2	4030.3	4065.8	4070.8	4102.8	4111.2	4013.5	3819.9
30°	4168.5	4183.6	4139.9	4067.4	4059.0	4139.9	4141.5	4198.8	4212.2	4114.6	3954.6
32.5°	4230.8	4247.6	4203.8	4097.7	4086.0	4198.8	4203.8	4279.6	4301.5	4222.4	4096.0
35°	4377.3	4397.6	4347.0	4181.9	4139.9	4254.4	4269.5	4358.8	4402.6	4336.9	4242.6
37.5°	4742.8	4683.8	4614.8	4352.0	4262.8	4341.9	4367.2	4471.7	4549.1	4473.3	4417.8
40°	5650.6	5465.3	5249.7	4641.7	4478.3	4528.9	4549.1	4653.5	4759.6	4685.5	4658.5
42.5°	7013.2	6794.1	6447.2	5308.7	4803.5	4828.7	4843.8	4934.8	5084.7	5025.7	5032.4
45°	8227.5	8148.2	7794.6	6447.2	5411.4	5286.7	5305.3	5352.4	5573.1	5551.2	5595.0
47.5°	9160.5	9115.0	8842.2	7754.1	6438.7	5847.6	5899.8	5921.7	6240.1	6317.5	6435.5
50°	9877.9	9861.1	9617.0	8916.3	7781.1	6674.6	6693.1	6646.0	7122.6	7314.6	7538.6
52.5°	10555.0	10612.3	10432.0	9995.9	9214.3	7757.5	7754.1	7531.8	8175.2	8464.9	8847.2
55°	11166.5	11186.6	11205.1	11097.4	10656.1	8990.4	8958.4	8594.6	9396.3	9696.1	10110.4
57.5°	11740.8	11749.2	11914.2	12134.9	12156.7	10314.2	10255.2	9819.0	10730.2	10944.1	11198.4
60°	12126.4	12165.1	12513.8	13126.9	13394.6	11680.1	11648.1	11203.5	12087.7	12187.0	12139.9
62.5°	11570.6	11806.4	12685.6	13901.6	14563.5	13194.2	13179.0	12761.4	13515.9	13435.1	13030.8
65°	9365.9	9765.2	11311.3	14425.3	15710.5	14885.2	14907.1	14462.4	14982.8	14720.1	13755.1
67.5°	6551.6	6972.7	8801.8	14467.5	16992.1	16870.9	16997.2	16300.0	16540.7	15951.3	13926.9
70°	4530.6	4747.8	5938.5	13561.4	17990.9	19606.1	19602.7	18556.8	18090.2	16512.1	13051.0
72.5°	3046.8	3159.6	3856.9	10758.8	17256.6	21231.3	21133.7	20281.5	18612.4	15442.6	10662.9
75°	1285.0	1367.6	1785.2	6046.4	13652.3	19424.2	19159.7	17923.6	16537.4	12160.1	6652.7
77.5°	407.5	442.9	704.0	2164.2	7520.0	14600.5	14321.0	11193.3	11083.8	6100.3	2432.0
80°	193.7	225.7	395.8	869.1	2959.2	7941.1	7902.3	5078.0	4768.0	1647.2	488.4
82.5°	84.3	99.3	218.9	464.8	1323.8	2832.9	2890.1	1728.0	1429.9	624.8	149.9
85°	27.0	35.4	101.1	213.9	559.1	704.0	695.6	410.9	576.0	340.2	52.2
87.5°	0.0	0.0	33.7	48.9	57.3	40.4	45.5	35.4	160.0	94.3	18.6
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°	2703.1	2703.1	2703.1	2703.1	2703.1	2703.1	2703.1	2703.1	2703.1	2703.1	2703.1
2.5°	2716.7	2689.7	2642.6	2598.8	2560.0	2521.3	2497.7	2464.0	2460.6	2460.6	2469.1
5°	2735.2	2691.3	2607.2	2517.9	2415.2	2317.5	2219.8	2125.4	2095.2	2073.3	2083.4
7.5°	2789.0	2720.0	2587.0	2416.8	2221.5	2007.6	1857.7	1696.0	1633.7	1600.0	1605.0
10°	2866.5	2772.2	2570.1	2272.0	1955.4	1664.0	1450.1	1275.0	1207.6	1179.0	1179.0
12.5°	2952.4	2836.3	2539.8	2091.8	1664.0	1315.4	1106.5	1025.7	1015.6	1015.6	1015.6
15°	3055.2	2913.7	2487.6	1879.6	1359.1	1040.9	966.8	970.2	980.2	987.0	987.0
17.5°	3161.3	2996.3	2405.1	1642.2	1089.7	936.4	938.1	943.2	951.6	958.3	958.3
20°	3275.8	3078.8	2295.6	1389.5	934.7	906.1	911.1	916.2	922.9	926.3	928.0
22.5°	3398.8	3156.3	2165.9	1142.0	882.5	880.9	882.5	887.5	896.1	896.1	899.3
25°	3530.1	3242.2	2017.7	961.7	855.6	855.6	859.0	862.3	869.1	869.1	870.7
27.5°	3664.9	3321.3	1861.1	867.4	832.0	830.4	830.4	835.4	838.8	840.4	842.1
30°	3813.1	3414.0	1704.5	847.2	813.4	805.0	800.0	803.4	806.8	808.4	811.8
32.5°	3964.7	3503.1	1564.7	855.6	795.0	779.8	762.9	759.6	759.6	766.3	771.4
35°	4133.1	3600.8	1456.8	884.3	784.8	742.7	715.8	700.6	702.3	712.5	717.5
37.5°	4335.2	3718.8	1377.7	909.5	778.1	700.6	656.8	638.4	626.6	638.4	635.0
40°	4599.6	3892.2	1320.4	929.7	769.7	651.8	592.9	562.5	540.6	547.3	544.0
42.5°	4988.7	4165.1	1298.6	931.4	751.1	594.5	527.2	486.8	454.7	456.4	449.7
45°	5534.4	4596.2	1411.4	909.5	710.7	532.2	458.1	404.3	384.0	378.9	372.2
47.5°	6282.1	5224.4	1672.4	864.0	651.8	471.6	390.7	345.2	330.2	321.6	316.6
50°	7284.3	6031.2	1962.2	813.4	592.9	414.3	335.2	306.6	296.4	288.0	286.3
52.5°	8446.4	6849.8	2199.5	762.9	533.9	363.8	299.8	282.9	274.5	267.8	266.1
55°	9512.5	7413.9	2186.1	709.1	476.6	323.4	274.5	264.4	254.3	247.5	244.3
57.5°	10176.1	7493.2	1802.2	650.2	410.9	291.4	250.9	244.3	232.5	224.0	222.3
60°	10480.9	7041.7	1263.2	572.7	345.2	261.1	225.7	222.3	207.2	195.4	192.0
62.5°	10536.5	6203.0	842.1	476.6	288.0	232.5	200.4	195.4	175.2	155.0	144.8
65°	10310.8	5003.8	582.7	372.2	245.9	202.1	171.8	161.6	139.8	119.6	112.9
67.5°	9596.7	3513.3	405.9	267.8	208.9	160.0	136.4	133.0	116.2	99.3	94.3
70°	8288.0	2002.5	271.1	200.4	165.0	109.5	107.8	111.1	94.3	80.9	74.1
72.5°	6354.6	916.2	168.4	146.6	112.9	74.1	85.9	87.5	72.5	60.7	53.9
75°	3740.6	392.5	106.1	94.3	57.3	48.9	62.3	64.0	48.9	38.7	33.7
77.5°	1273.3	148.2	67.3	55.6	28.6	27.0	40.4	40.4	27.0	15.2	11.8
80°	289.7	55.6	33.7	21.9	13.4	11.8	13.4	11.8	6.8	1.6	0.0
82.5°	82.5	21.9	13.4	8.4	5.0	5.0	1.6	0.0	0.0	0.0	0.0
85°	23.6	10.1	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.1	1.6	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)