

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: P968152

Luminaire Tested: **NAV-SB5B-722-U-SL2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968152
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5B-722-U-SL2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19521.1 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

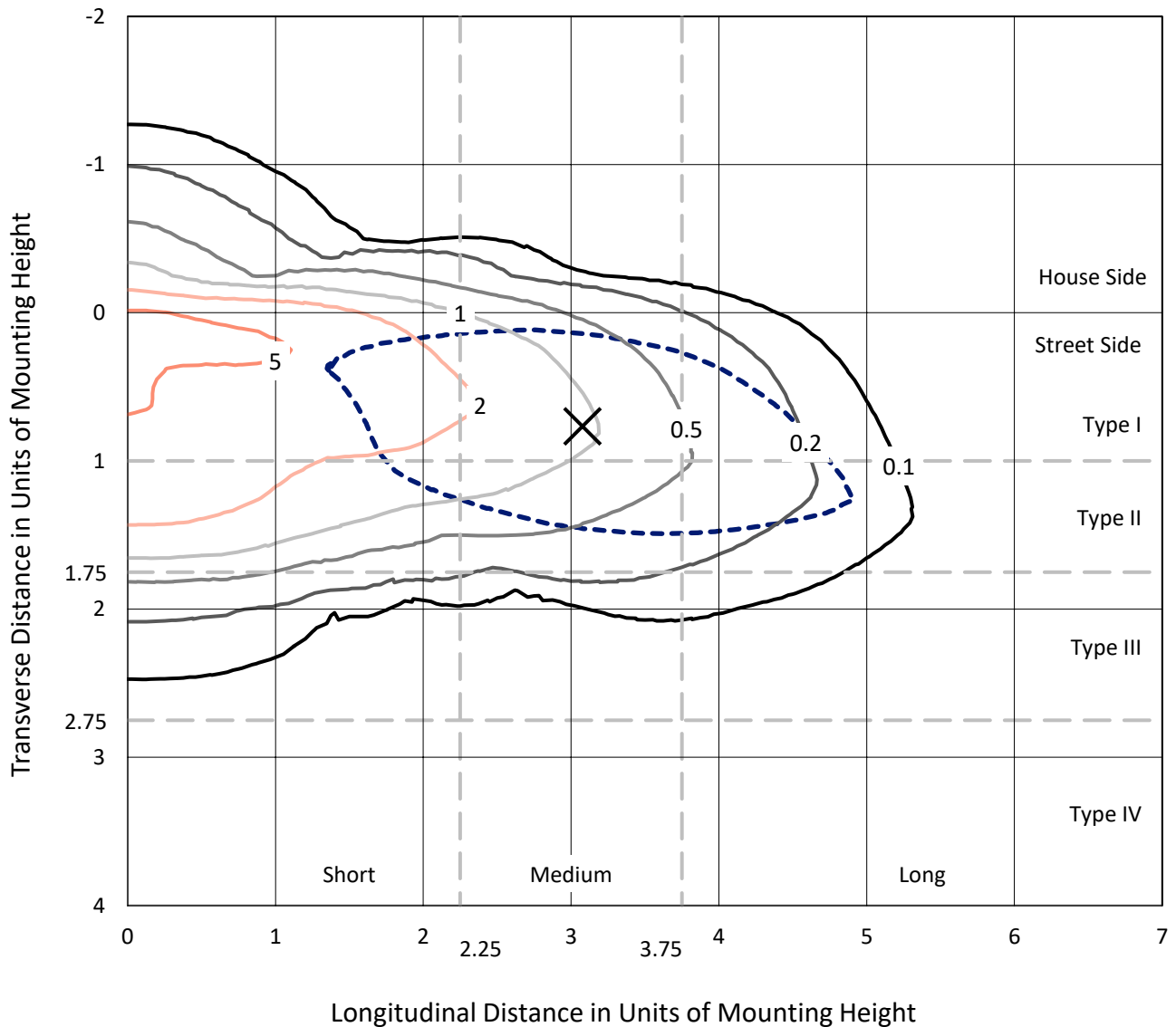
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

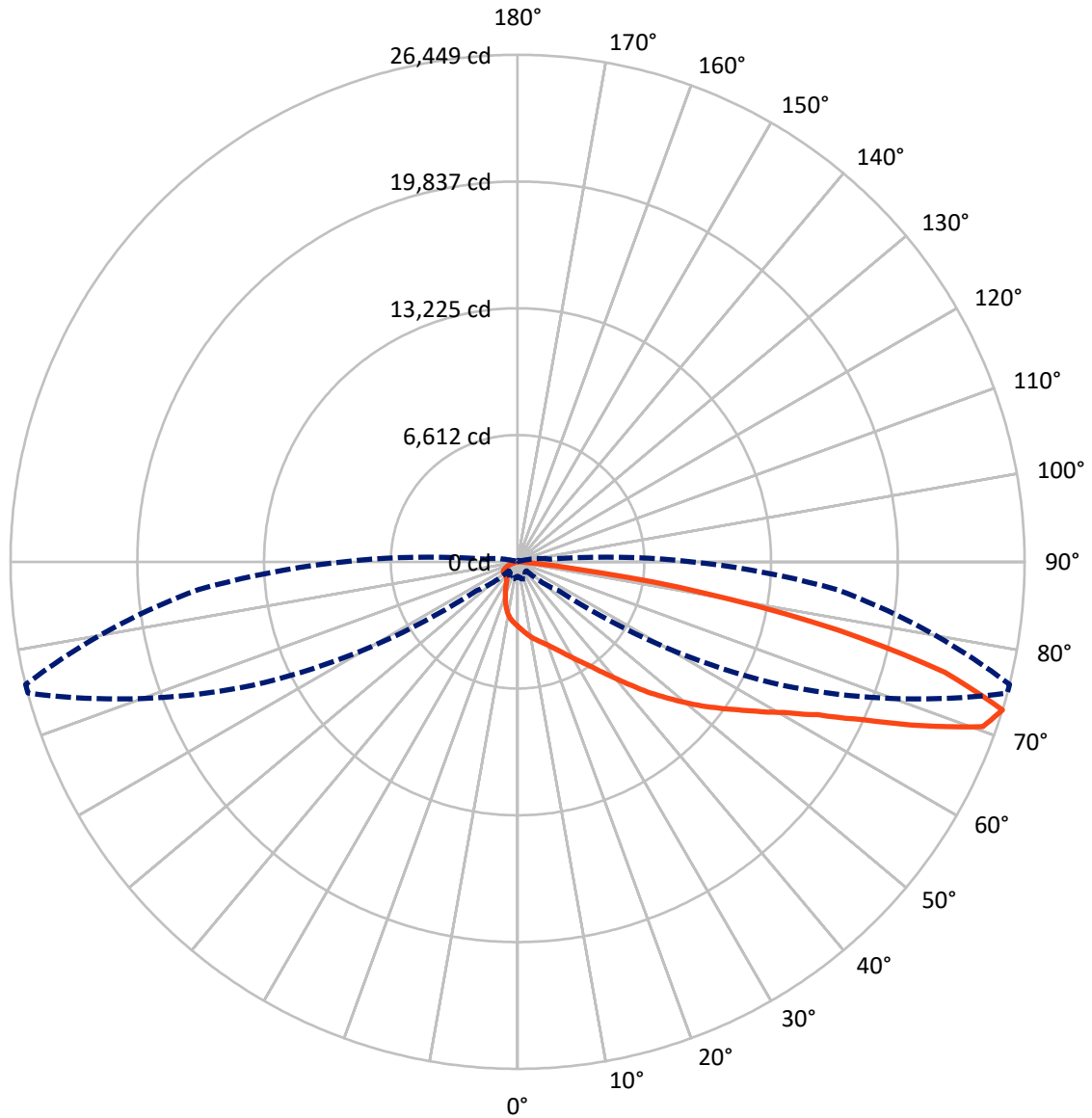
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1998.0	0.0	1998.0
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	17523.1	0.0	17523.1
	% Fixture	89.8	0.0	89.8
Total	Lumens	19521.1	0.0	19521.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.8	1.6
10°-20°	822.7	4.2
20°-30°	1302.0	6.7
30°-40°	2014.5	10.3
40°-50°	3059.6	15.7
50°-60°	4218.0	21.6
60°-70°	4456.1	22.8
70°-80°	3057.0	15.7
80°-90°	284.5	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°	19521.1	100.0
0°-180°	19521.1	100.0

Coefficient of Utilization

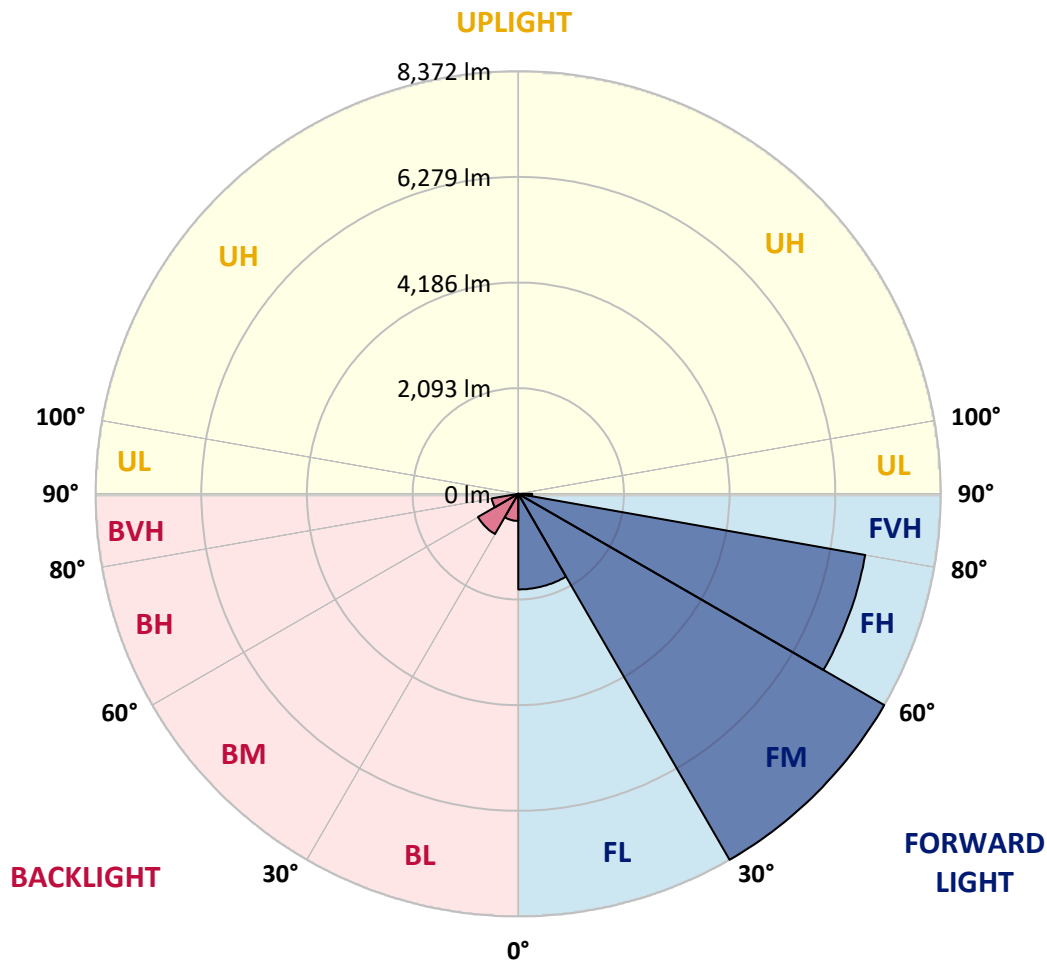


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1894.5	9.7			
FM (30°-60°)	8372.2	42.9			
FH (60°-80°)	6979.6	35.8			G3/7500
FVH (80°-90°)	276.8	1.4			G3/500
BL (0°-30°)	537.0	2.8	B2/1000		
BM (30°-60°)	919.9	4.7	B1/1000		
BH (60°-80°)	533.4	2.7	B2/1000		G2/1000
BVH (80°-90°)	7.7	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-G3
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3373.4	3373.4	3373.4	3373.4	3373.4	3373.4	3373.4	3373.4	3373.4	3373.4	3373.4
2.5°	3921.8	3869.8	3879.9	3828.1	3804.0	3745.8	3685.0	3605.1	3516.5	3516.5	3430.4
5°	4334.5	4301.6	4301.6	4240.8	4194.0	4102.8	3993.9	3853.4	3686.2	3669.7	3506.4
7.5°	4587.8	4567.5	4580.2	4544.7	4506.7	4411.8	4282.7	4099.0	3862.2	3841.9	3596.3
10°	4637.2	4635.9	4671.3	4681.5	4706.8	4658.7	4543.5	4332.0	4035.7	4006.5	3673.5
12.5°	4445.9	4422.0	4509.3	4611.9	4756.2	4820.8	4761.3	4544.7	4194.0	4153.5	3745.8
15°	4132.0	4137.0	4220.5	4378.9	4619.5	4849.9	4927.2	4752.4	4354.8	4306.6	3814.1
17.5°	3952.1	3933.1	4005.3	4147.2	4413.0	4738.5	5004.5	4946.1	4525.8	4471.3	3883.7
20°	3930.6	3929.3	3945.7	4010.4	4213.0	4579.0	4995.5	5134.8	4727.1	4663.8	3983.8
22.5°	4080.0	4077.4	4063.5	4050.9	4106.6	4423.2	4957.5	5314.6	4967.7	4899.3	4125.6
25°	4309.2	4305.4	4283.9	4206.6	4152.2	4339.6	4922.2	5481.8	5252.6	5176.7	4297.8
27.5°	4589.0	4586.6	4547.3	4430.8	4290.2	4347.2	4904.4	5654.0	5581.8	5507.1	4496.7
30°	4932.2	4927.2	4846.1	4681.5	4497.9	4467.5	4928.4	5847.7	5925.0	5868.0	4725.9
32.5°	5362.8	5348.9	5242.5	4994.3	4737.2	4628.3	4974.0	6046.6	6331.5	6278.3	5032.2
35°	5695.8	5674.3	5612.3	5393.1	5014.5	4825.9	5080.4	6282.1	6820.2	6773.4	5423.6
37.5°	5982.0	5960.5	5909.8	5730.0	5412.2	5077.8	5251.4	6596.2	7397.7	7374.9	5900.9
40°	6290.9	6255.5	6231.5	6039.0	5751.5	5441.3	5495.7	6963.3	8062.5	8065.0	6474.6
42.5°	6529.0	6515.1	6517.7	6369.5	6079.5	5871.8	5820.0	7377.4	8859.1	8883.1	7164.7
45°	6732.9	6721.5	6768.4	6664.6	6410.0	6154.2	6199.8	7846.0	9730.2	9779.6	7937.2
47.5°	6889.9	6902.6	6969.7	6902.6	6753.2	6353.1	6536.6	8351.3	10645.8	10652.1	8734.9
50°	7047.0	7052.0	7163.4	7130.5	7069.7	6605.0	6846.9	8916.0	11610.7	11622.1	9480.7
52.5°	7096.4	7088.7	7266.0	7347.1	7349.6	6916.5	7248.3	9531.5	12556.7	12593.4	10248.2
55°	6843.1	6864.6	7150.8	7480.0	7610.4	7347.1	7790.3	10310.2	13564.5	13579.8	11007.9
57.5°	5604.6	5723.7	6356.8	7120.4	7778.8	7963.7	8569.0	11220.7	14728.3	14714.4	11777.9
60°	3401.3	3543.1	4300.4	5971.9	7229.3	8582.9	9716.3	12631.4	15999.7	15960.5	12556.7
62.5°	1902.0	1945.0	2186.9	3574.8	5498.3	8189.1	10837.0	14443.4	17706.7	17573.7	13322.7
65°	1401.8	1415.7	1472.7	1751.3	2702.3	6298.5	10591.3	16610.0	20105.1	19868.2	14240.8
67.5°	1218.2	1232.2	1287.8	1325.8	1206.7	3308.8	8726.0	17811.7	23150.4	22840.3	15483.0
70°	1025.7	1033.3	1123.2	1148.5	863.7	1258.7	5605.9	17440.8	25969.3	25747.7	16816.5
72.5°	764.9	795.2	925.7	986.5	692.7	668.6	2639.0	15248.7	26446.6	26449.2	16726.6
75°	519.2	547.0	696.5	811.7	534.3	468.5	1065.0	11386.5	23028.9	23028.9	14662.5
77.5°	354.5	377.4	485.0	636.9	405.2	321.6	552.1	7226.8	16521.4	17102.6	10450.8
80°	157.0	171.0	312.7	462.2	307.7	207.7	312.7	3957.2	9991.1	9868.3	4096.5
82.5°	77.3	88.7	200.1	288.7	198.8	127.9	164.6	1881.7	3238.0	3077.2	639.5
85°	15.2	20.3	107.6	122.8	92.5	57.0	62.0	578.7	390.0	445.8	135.5
87.5°	0.0	0.0	32.9	22.8	10.1	12.7	12.7	52.0	30.3	35.5	35.5
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°	3373.4	3373.4	3373.4	3373.4	3373.4	3373.4	3373.4	3373.4	3373.4	3373.4	3373.4
2.5°	3384.9	3338.0	3235.4	3134.0	3030.2	2935.3	2869.4	2803.6	2763.1	2745.4	2747.8
5°	3411.4	3316.4	3101.1	2875.7	2652.9	2435.1	2271.7	2118.5	2070.4	1990.7	1995.7
7.5°	3453.2	3298.8	2959.4	2579.4	2217.3	1898.2	1667.7	1484.1	1410.7	1339.8	1338.4
10°	3481.1	3265.8	2771.9	2264.1	1774.1	1415.7	1195.4	1062.4	1014.3	971.3	970.0
12.5°	3492.5	3205.0	2556.7	1910.8	1380.3	1078.9	947.2	885.2	868.7	853.5	853.5
15°	3502.6	3145.5	2316.1	1570.2	1090.3	902.8	851.0	830.7	819.3	809.1	809.1
17.5°	3511.4	3069.5	2041.3	1276.4	920.6	832.0	806.7	785.2	776.2	764.9	764.9
20°	3541.9	2996.1	1795.6	1053.6	828.2	781.4	753.5	730.6	723.0	715.4	716.7
22.5°	3598.8	2936.5	1557.6	902.8	772.4	729.4	693.9	668.6	663.6	658.5	654.7
25°	3667.2	2863.1	1333.4	805.3	718.0	669.8	630.6	609.1	604.0	605.3	602.8
27.5°	3754.6	2782.1	1140.9	743.3	669.8	614.2	569.8	553.4	555.9	561.0	558.4
30°	3850.8	2707.3	990.3	700.3	626.8	564.8	520.5	509.0	517.9	525.5	523.0
32.5°	3993.9	2641.5	885.2	666.0	588.9	524.3	488.8	474.9	485.0	495.1	492.6
35°	4188.9	2608.6	825.6	636.9	555.9	492.6	457.2	447.0	457.2	459.7	458.4
37.5°	4428.2	2606.1	800.3	612.8	525.5	466.0	426.7	422.9	430.5	431.8	429.3
40°	4737.2	2622.5	781.4	595.1	493.8	435.6	398.9	395.0	397.6	406.5	405.2
42.5°	5128.5	2690.9	754.7	572.4	459.7	405.2	376.1	367.3	365.9	376.1	374.8
45°	5619.9	2841.6	719.2	535.7	429.3	379.9	350.8	340.6	336.8	339.4	343.2
47.5°	6155.4	3026.4	683.8	501.4	407.7	359.7	330.5	317.9	311.5	311.5	311.5
50°	6674.7	3235.4	659.8	466.0	392.6	340.6	308.9	296.3	286.2	283.6	282.4
52.5°	7188.7	3440.5	640.7	430.5	374.8	316.6	288.7	274.8	263.4	258.3	255.8
55°	7657.3	3635.6	607.8	396.4	352.0	291.2	268.4	254.5	240.6	231.8	228.0
57.5°	8106.8	3797.6	547.0	360.9	316.6	267.2	246.9	231.8	215.2	203.9	198.8
60°	8515.9	3881.2	471.1	322.9	281.2	241.9	222.8	208.9	187.4	168.4	163.4
62.5°	8827.4	3848.3	388.8	279.8	244.4	219.0	195.1	181.1	155.8	132.9	124.1
65°	9146.5	3668.5	310.3	234.3	214.0	188.7	163.4	149.4	120.3	96.2	89.9
67.5°	9560.6	3284.8	244.4	195.1	184.9	149.4	127.9	119.0	98.8	76.0	70.9
70°	9826.5	2551.6	189.9	158.3	151.9	108.9	98.8	97.5	78.5	58.2	52.0
72.5°	9097.1	1672.8	145.7	120.3	108.9	70.9	76.0	76.0	57.0	39.3	34.2
75°	7594.0	978.9	105.1	86.1	62.0	45.6	52.0	52.0	35.5	19.0	15.2
77.5°	5423.6	521.7	69.6	53.2	31.7	20.3	27.9	26.5	11.4	1.2	0.0
80°	2074.2	179.8	32.9	21.5	8.8	3.8	2.6	1.2	1.2	0.0	0.0
82.5°	316.6	46.8	6.4	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	57.0	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.7	0.0	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)