

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: P965013

Luminaire Tested: **NAV-SB3D-722-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965013
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-SB3D-722-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 900mA 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: 19913.7 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

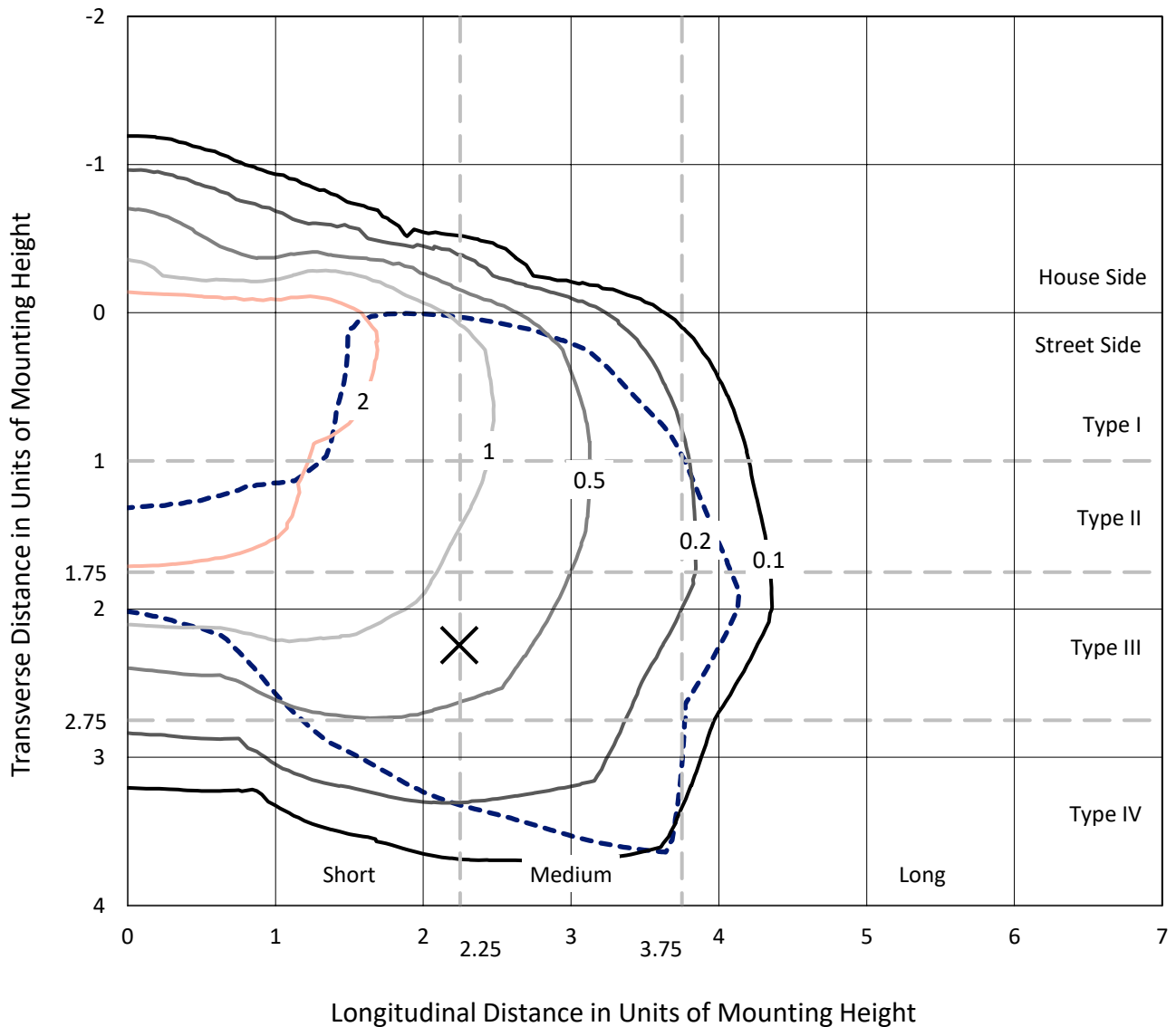
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

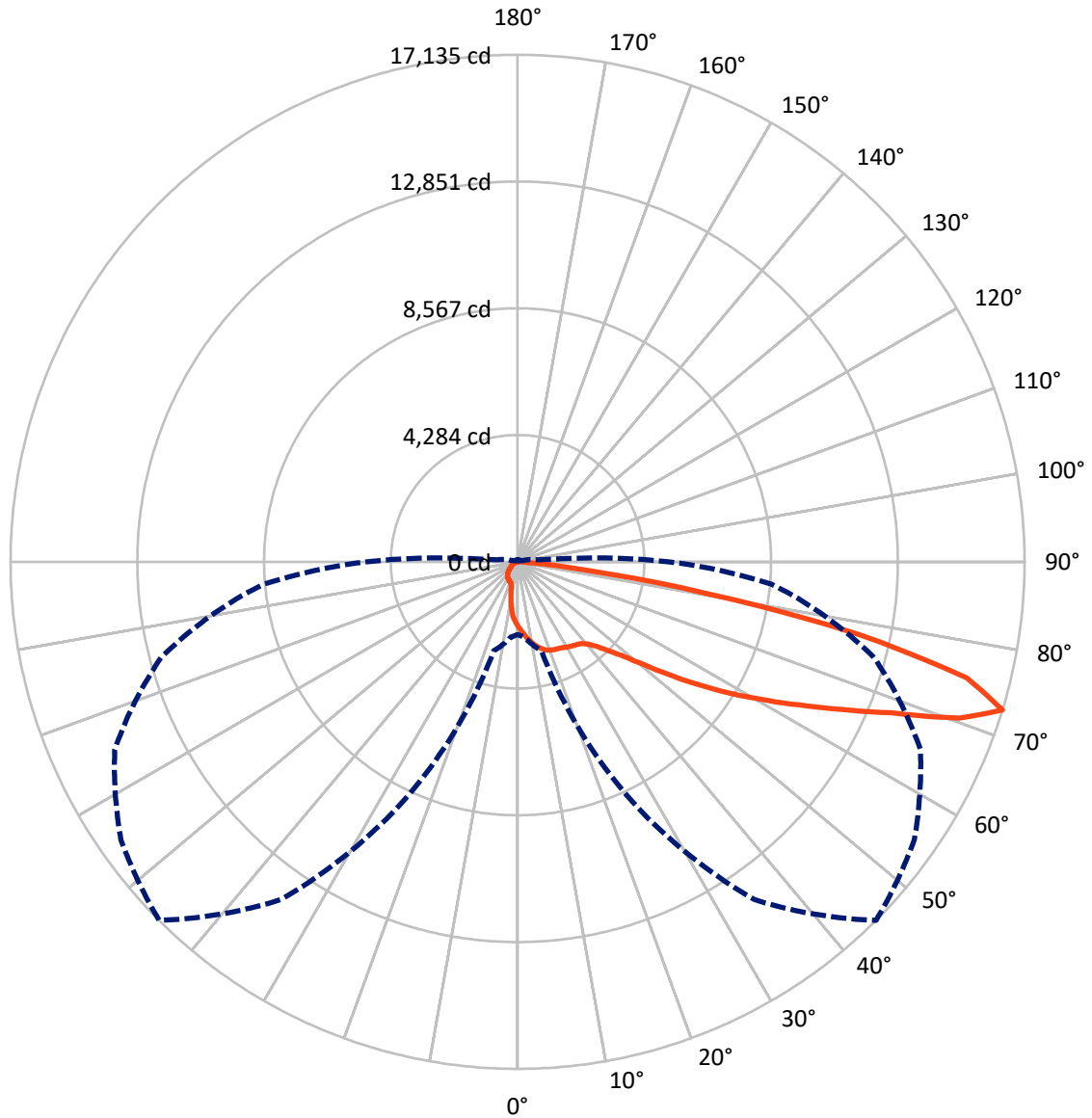
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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	2092.4	0.0	2092.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	17821.3	0.0	17821.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	19913.7	0.0	19913.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.5	1.0
10°-20°	600.7	3.0
20°-30°	986.5	5.0
30°-40°	1399.1	7.0
40°-50°	2312.5	11.6
50°-60°	4154.2	20.9
60°-70°	5768.4	29.0
70°-80°	4184.2	21.0
80°-90°	302.5	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°	19913.7	100.0
0°-180°	19913.7	100.0

Coefficient of Utilization

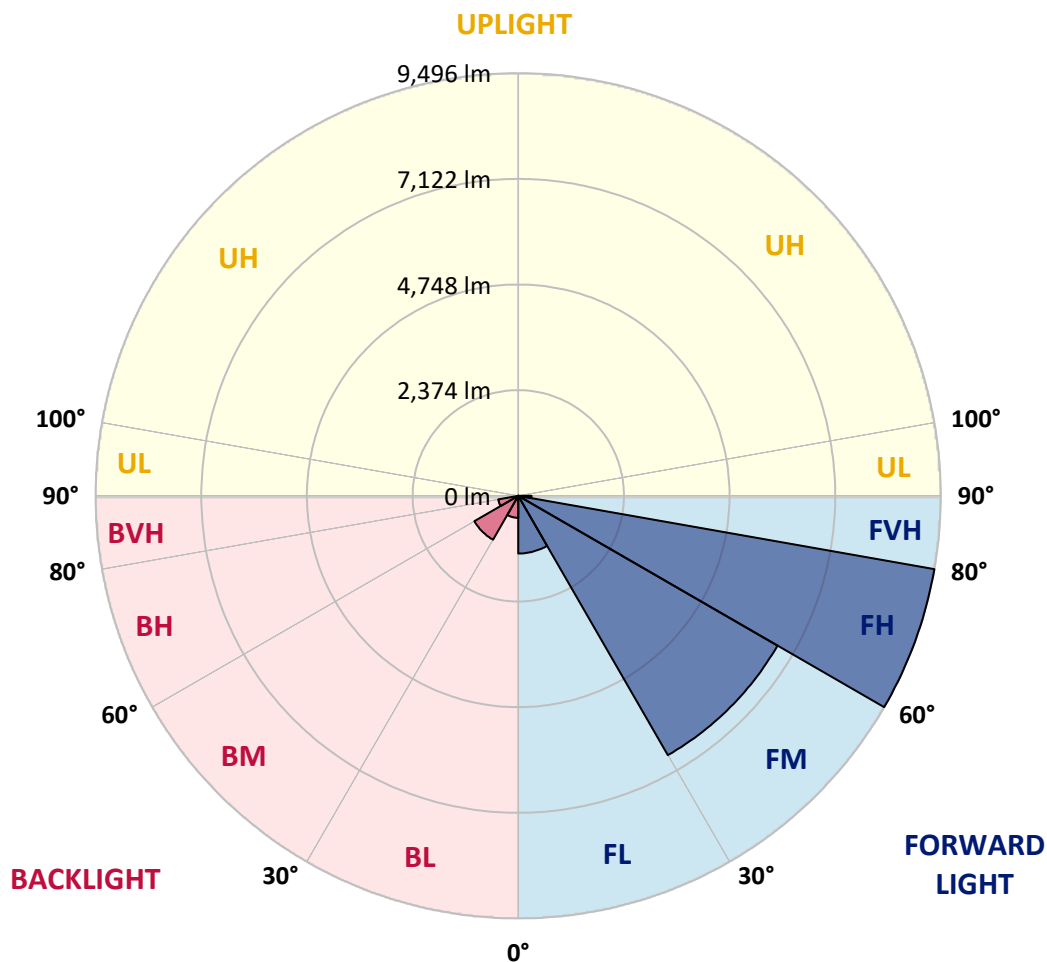


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1297.2	6.5			
FM (30°-60°)	6727.9	33.8			
FH (60°-80°)	9496.3	47.7			G4/12000
FVH (80°-90°)	300.0	1.5			G3/500
BL (0°-30°)	495.6	2.5	B1/500		
BM (30°-60°)	1138.0	5.7	B2/2500		
BH (60°-80°)	456.3	2.3	B1/500		G1/500
BVH (80°-90°)	2.5	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°	2181.6	2181.6	2181.6	2181.6	2181.6	2181.6	2181.6	2181.6	2181.6	2181.6	2181.6
2.5°	2382.7	2386.8	2384.1	2367.9	2340.6	2325.6	2317.5	2290.4	2272.6	2241.4	2208.8
5°	2601.6	2618.0	2608.4	2575.7	2524.2	2487.4	2476.5	2420.8	2370.5	2312.1	2244.1
7.5°	2834.0	2842.2	2824.5	2782.4	2713.1	2650.5	2641.0	2563.5	2483.4	2393.6	2301.2
10°	3035.2	3044.7	3017.5	2956.4	2877.5	2800.1	2786.5	2700.8	2605.7	2495.6	2377.3
12.5°	3203.7	3213.3	3177.9	3104.5	3017.5	2937.3	2923.7	2834.0	2729.4	2607.0	2460.2
15°	3331.6	3349.2	3301.6	3222.8	3129.0	3048.8	3042.0	2953.6	2851.7	2715.7	2559.4
17.5°	3406.3	3423.9	3379.1	3283.9	3203.7	3135.8	3127.6	3054.2	2959.1	2828.6	2656.0
20°	3418.5	3434.8	3387.2	3304.3	3237.8	3183.3	3179.2	3126.2	3057.0	2931.9	2760.6
22.5°	3381.8	3402.2	3358.7	3292.1	3245.9	3217.4	3211.9	3182.0	3142.5	3036.6	2858.5
25°	3343.8	3360.1	3327.5	3269.0	3244.5	3241.8	3245.9	3240.4	3232.2	3142.5	2972.7
27.5°	3341.0	3358.7	3322.0	3266.3	3252.6	3281.2	3285.3	3311.2	3317.9	3239.1	3082.8
30°	3364.2	3376.4	3341.0	3282.6	3275.8	3341.0	3342.4	3388.5	3399.5	3320.6	3191.5
32.5°	3414.4	3428.0	3392.6	3307.1	3297.5	3388.5	3392.6	3453.8	3471.5	3407.6	3305.7
35°	3532.7	3549.0	3508.2	3375.0	3341.0	3433.4	3445.6	3517.7	3553.1	3500.1	3423.9
37.5°	3827.7	3780.1	3724.3	3512.3	3440.2	3504.2	3524.6	3608.8	3671.3	3610.2	3565.3
40°	4560.2	4410.8	4236.7	3746.1	3614.3	3655.0	3671.3	3755.6	3841.2	3781.4	3759.7
42.5°	5659.8	5483.2	5203.2	4284.3	3876.6	3896.9	3909.1	3982.6	4103.6	4056.0	4061.5
45°	6640.0	6576.0	6290.6	5203.2	4367.2	4266.7	4281.6	4319.7	4497.7	4480.1	4515.4
47.5°	7392.9	7356.2	7136.0	6257.9	5196.4	4719.3	4761.4	4779.1	5036.0	5098.6	5193.7
50°	7971.9	7958.4	7761.3	7195.8	6279.7	5386.7	5401.6	5363.6	5748.2	5903.2	6084.0
52.5°	8518.4	8564.6	8419.1	8067.2	7436.5	6260.7	6257.9	6078.6	6597.8	6831.5	7140.2
55°	9011.8	9028.1	9043.1	8956.0	8600.0	7255.7	7229.8	6936.3	7583.3	7825.2	8159.5
57.5°	9475.3	9482.1	9615.3	9793.4	9811.0	8324.0	8276.5	7924.4	8659.7	8832.4	9037.6
60°	9786.6	9817.9	10099.2	10594.0	10810.1	9426.4	9400.6	9041.7	9755.3	9835.5	9797.5
62.5°	9338.1	9528.3	10237.8	11219.2	11753.4	10648.3	10636.1	10299.0	10907.9	10842.7	10516.5
65°	7558.8	7880.9	9128.6	11641.9	12679.0	12013.0	12030.6	11671.9	12091.8	11879.7	11101.0
67.5°	5287.5	5627.2	7103.5	11675.9	13713.4	13615.6	13717.5	13154.7	13349.2	12873.4	11239.6
70°	3656.4	3831.8	4792.7	10944.6	14519.4	15822.9	15820.3	14976.2	14599.7	13326.0	10532.8
72.5°	2458.9	2549.9	3112.7	8682.9	13926.8	17134.6	17055.8	16368.0	15021.1	12462.9	8605.4
75°	1037.1	1103.7	1440.8	4879.7	11018.0	15676.1	15462.7	14465.1	13346.4	9813.8	5369.1
77.5°	328.9	357.5	568.2	1746.6	6069.0	11783.3	11557.7	9033.5	8945.2	4923.2	1962.8
80°	156.3	182.1	319.4	701.4	2388.1	6408.8	6377.5	4098.2	3848.1	1329.3	394.2
82.5°	68.0	80.2	176.7	375.2	1068.4	2286.3	2332.5	1394.6	1154.0	504.3	121.0
85°	21.7	28.5	81.6	172.6	451.3	568.2	561.4	331.7	464.8	274.6	42.1
87.5°	0.0	0.0	27.2	39.5	46.2	32.6	36.7	28.5	129.1	76.2	15.0
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°	2181.6	2181.6	2181.6	2181.6	2181.6	2181.6	2181.6	2181.6	2181.6	2181.6	2181.6
2.5°	2192.5	2170.7	2132.6	2097.4	2066.1	2034.8	2015.8	1988.6	1985.8	1985.8	1992.7
5°	2207.4	2172.1	2104.1	2032.1	1949.1	1870.3	1791.5	1715.3	1690.9	1673.2	1681.4
7.5°	2250.9	2195.1	2087.8	1950.5	1792.8	1620.2	1499.3	1368.8	1318.5	1291.3	1295.4
10°	2313.4	2237.3	2074.2	1833.6	1578.1	1343.0	1170.3	1029.0	974.6	951.5	951.5
12.5°	2382.7	2288.9	2049.7	1688.2	1343.0	1061.6	893.0	827.8	819.6	819.6	819.6
15°	2465.6	2351.5	2007.6	1516.9	1097.0	840.0	780.2	782.9	791.1	796.5	796.5
17.5°	2551.3	2418.1	1941.0	1325.2	879.4	755.7	757.1	761.2	767.9	773.4	773.4
20°	2643.8	2484.7	1852.7	1121.4	754.4	731.2	735.3	739.4	744.9	747.6	749.0
22.5°	2743.0	2547.2	1748.0	921.6	712.3	710.8	712.3	716.4	723.1	723.1	725.8
25°	2849.0	2616.5	1628.4	776.1	690.5	690.5	693.2	696.0	701.4	701.4	702.7
27.5°	2957.7	2680.5	1501.9	700.0	671.5	670.1	670.1	674.1	676.9	678.2	679.6
30°	3077.4	2755.2	1375.6	683.7	656.5	649.7	645.6	648.3	651.1	652.4	655.2
32.5°	3199.6	2827.3	1262.7	690.5	641.5	629.3	615.7	613.1	613.1	618.5	622.6
35°	3335.6	2906.1	1175.8	713.6	633.4	599.4	577.7	565.5	566.8	574.9	579.0
37.5°	3498.7	3001.2	1111.8	734.0	628.0	565.5	530.1	515.2	505.6	515.2	512.4
40°	3712.1	3141.2	1065.7	750.3	621.2	526.0	478.5	454.0	436.3	441.8	439.0
42.5°	4026.1	3361.4	1048.0	751.6	606.2	479.8	425.5	392.8	367.0	368.4	363.0
45°	4466.4	3709.4	1139.1	734.0	573.6	429.5	369.7	326.3	309.9	305.9	300.4
47.5°	5070.0	4216.3	1349.7	697.3	526.0	380.6	315.4	278.6	266.4	259.6	255.5
50°	5878.8	4867.4	1583.5	656.5	478.5	334.4	270.5	247.3	239.2	232.5	231.0
52.5°	6816.7	5528.0	1775.2	615.7	430.9	293.6	241.9	228.4	221.6	216.1	214.7
55°	7677.0	5983.4	1764.3	572.3	384.7	261.0	221.6	213.4	205.2	199.8	197.1
57.5°	8212.6	6047.3	1454.4	524.7	331.7	235.1	202.5	197.1	187.6	180.8	179.4
60°	8458.6	5683.0	1019.5	462.2	278.6	210.6	182.1	179.4	167.2	157.6	155.0
62.5°	8503.4	5006.1	679.6	384.7	232.5	187.6	161.7	157.6	141.3	125.0	116.8
65°	8321.3	4038.3	470.3	300.4	198.4	163.1	138.7	130.5	112.9	96.6	91.0
67.5°	7745.0	2835.4	327.6	216.1	168.5	129.1	110.1	107.4	93.8	80.2	76.2
70°	6688.8	1616.1	218.8	161.7	133.2	88.4	87.0	89.7	76.2	65.3	59.8
72.5°	5128.4	739.4	135.9	118.3	91.0	59.8	69.3	70.7	58.4	48.9	43.5
75°	3018.9	316.7	85.6	76.2	46.2	39.5	50.3	51.7	39.5	31.3	27.2
77.5°	1027.6	119.6	54.3	44.9	23.1	21.7	32.6	32.6	21.7	12.2	9.5
80°	233.8	44.9	27.2	17.6	10.9	9.5	10.9	9.5	5.4	1.3	0.0
82.5°	66.6	17.6	10.9	6.8	4.1	4.1	1.3	0.0	0.0	0.0	0.0
85°	19.1	8.2	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.2	1.3	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)