

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: P885179

Luminaire Tested: **NAV-SB6B-830-U-T3**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885179
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-830-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29926 lumens
Efficiency: N/A
Efficacy: 135.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

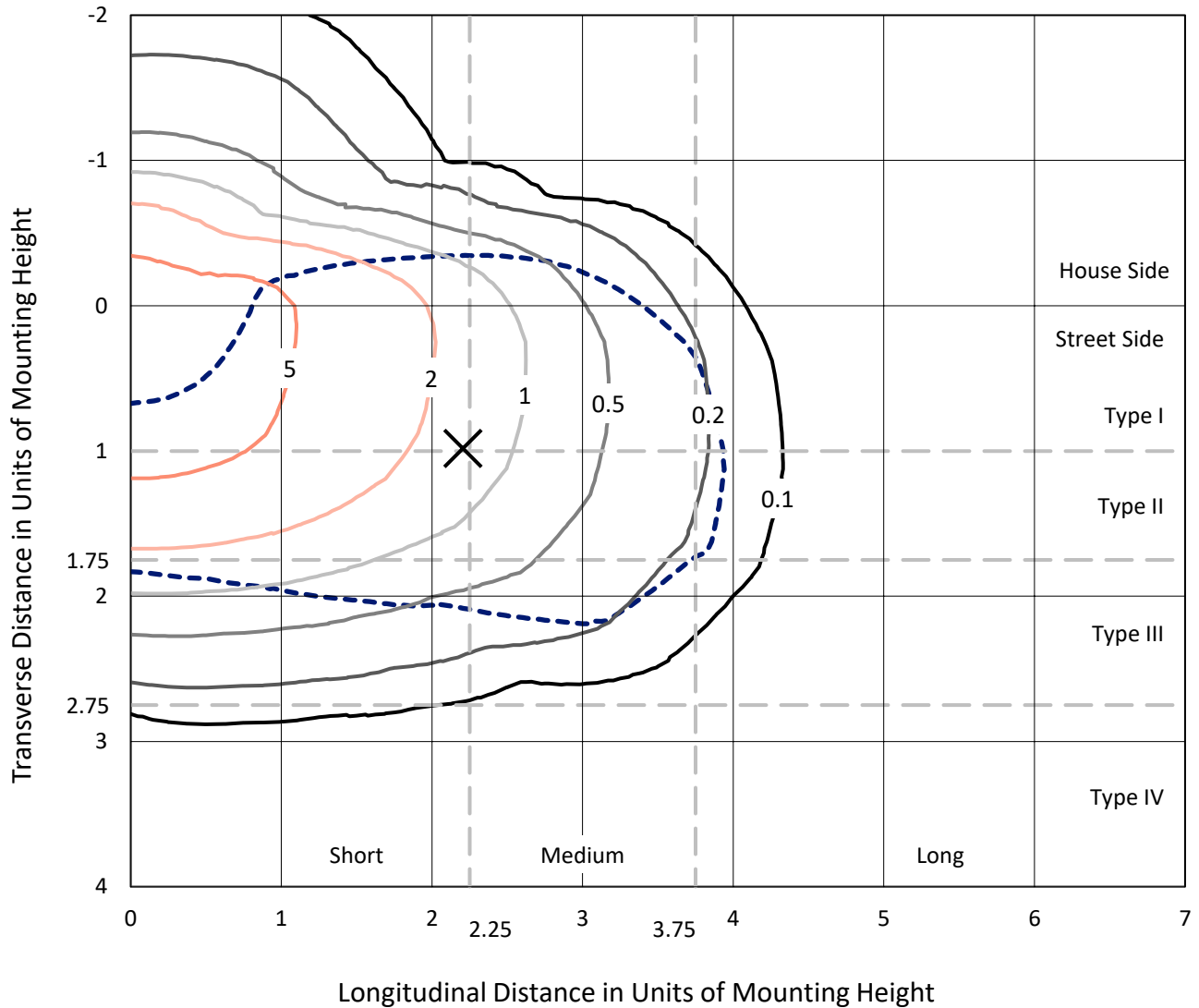
Input Watts (W): 220.4
Input Voltage (V): 120.0
Input Current (Ain): 1.838
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

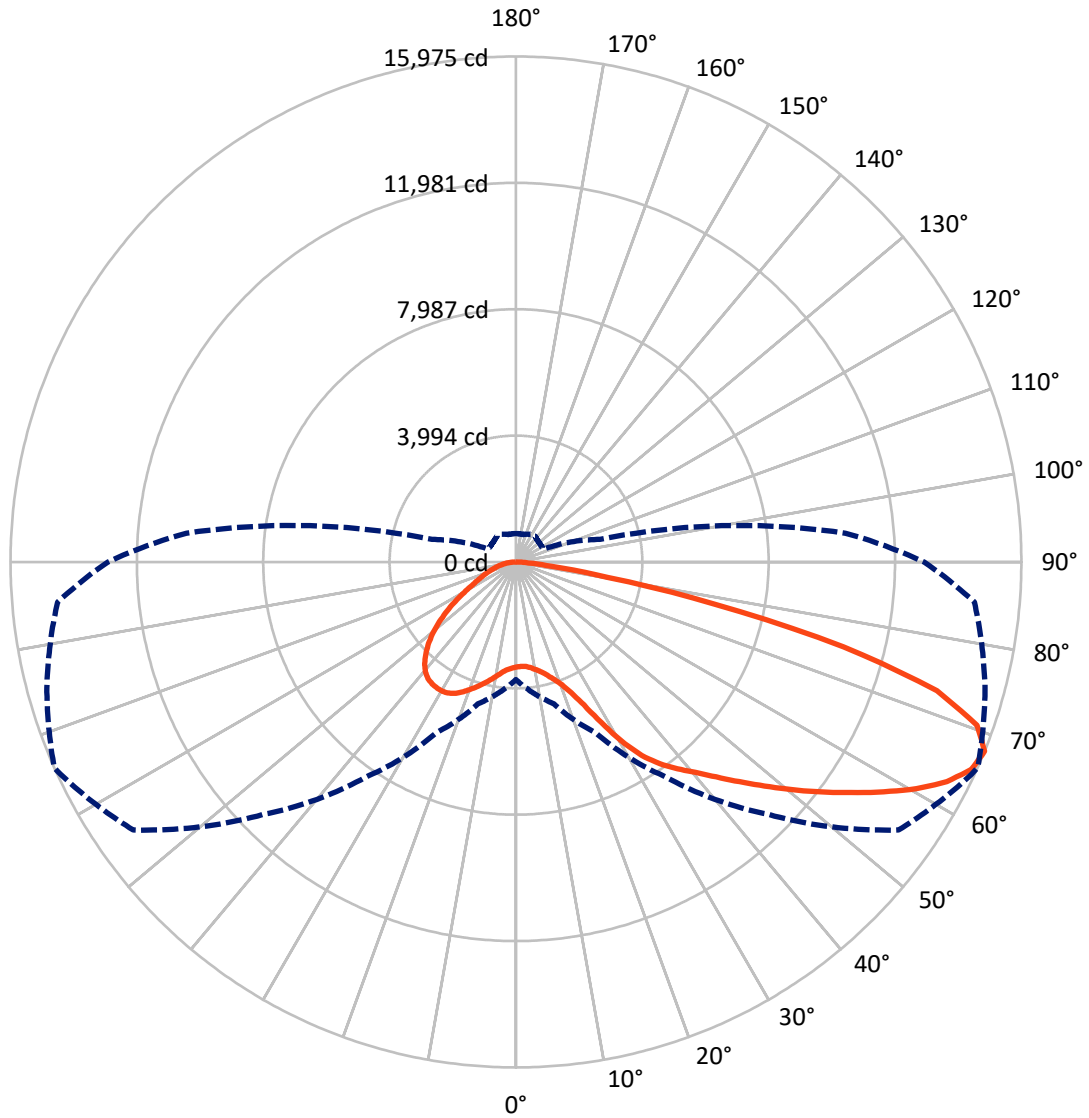
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7441.0	0.0	7441.0
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	22485.0	0.0	22485.0
	% Fixture	75.1	0.0	75.1
Total	Lumens	29926.0	0.0	29926.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.1	1.1
10°-20°	1087.2	3.6
20°-30°	2095.6	7.0
30°-40°	3674.4	12.3
40°-50°	5462.6	18.3
50°-60°	6924.4	23.1
60°-70°	6775.3	22.6
70°-80°	3231.9	10.8
80°-90°	345.4	1.2
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°	29926.0	100.0
0°-180°	29926.0	100.0

Coefficient of Utilization



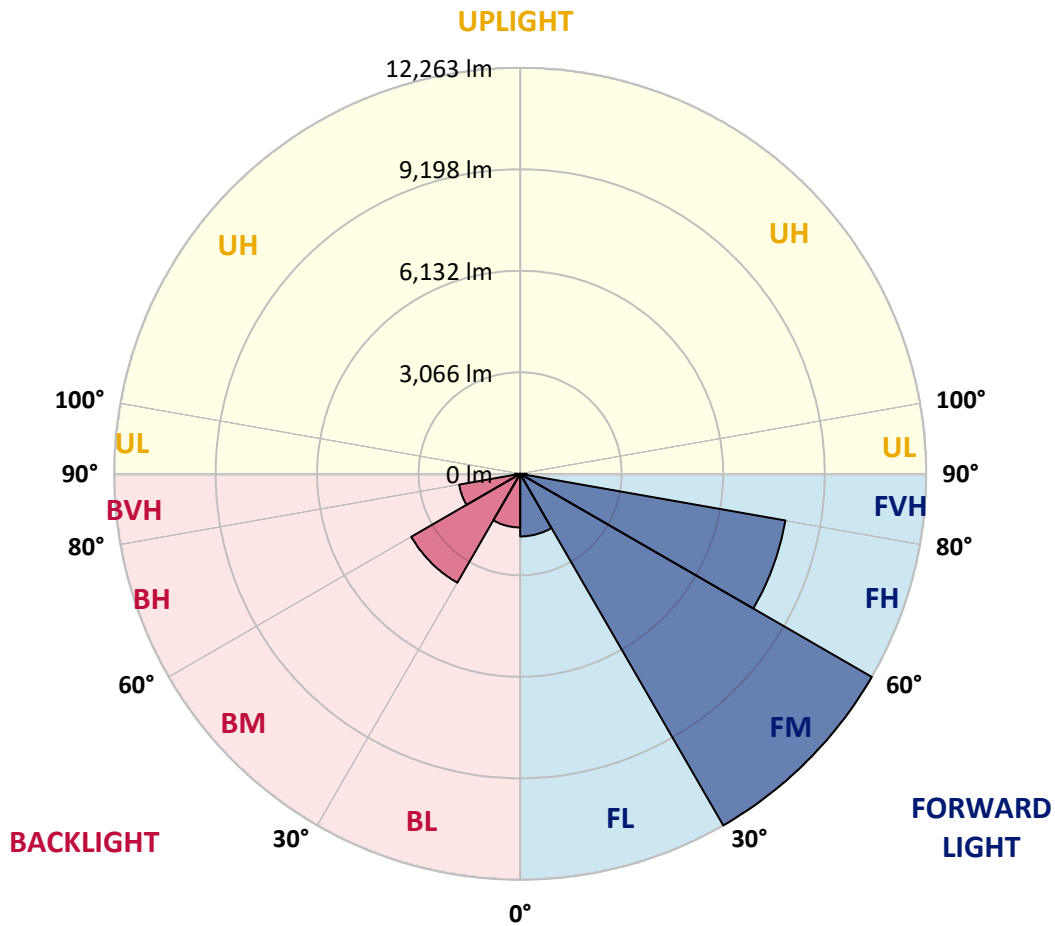
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1891.0	6.3			
FM (30°-60°)	12263.4	41.0			
FH (60°-80°)	8134.7	27.2			G4/12000
FVH (80°-90°)	195.8	0.7			G2/225
BL (0°-30°)	1620.9	5.4	B3/2500		
BM (30°-60°)	3798.0	12.7	B3/5000		
BH (60°-80°)	1872.5	6.3	B3/2500		G3/2500
BVH (80°-90°)	149.6	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3319.2	3319.2	3319.2	3319.2	3319.2	3319.2	3319.2	3319.2	3319.2	3319.2	3319.2
2.5°	3284.6	3303.5	3298.7	3290.9	3289.3	3292.5	3297.2	3301.9	3300.3	3308.2	3320.8
5°	3275.2	3294.0	3292.5	3292.5	3298.7	3311.3	3319.2	3327.1	3319.2	3328.6	3345.9
7.5°	3281.5	3295.6	3301.9	3308.2	3323.9	3347.5	3366.4	3383.7	3374.2	3385.2	3407.2
10°	3361.6	3372.6	3378.9	3378.9	3389.9	3416.7	3435.5	3467.0	3459.1	3476.4	3504.7
12.5°	3507.9	3518.9	3518.9	3512.6	3520.4	3537.7	3544.0	3578.6	3564.5	3592.8	3621.1
15°	3687.1	3709.1	3691.8	3680.8	3684.0	3701.3	3699.7	3726.4	3712.3	3735.9	3761.0
17.5°	3885.2	3913.5	3885.2	3883.7	3877.4	3896.2	3897.8	3921.4	3896.2	3913.5	3930.8
20°	4119.5	4158.8	4135.2	4143.1	4128.9	4136.8	4144.7	4179.3	4139.9	4152.5	4147.8
22.5°	4449.7	4496.9	4471.7	4501.6	4492.1	4485.9	4484.3	4545.6	4484.3	4489.0	4443.4
25°	4930.8	4987.4	4943.4	4984.3	4984.3	5004.7	5028.3	5106.9	5004.7	4974.9	4856.9
27.5°	5641.5	5698.1	5611.6	5636.8	5628.9	5679.3	5654.1	5849.1	5739.0	5690.3	5452.8
30°	6496.9	6597.5	6434.0	6427.7	6419.8	6500.0	6536.2	6665.1	6553.5	6504.7	6218.6
32.5°	7421.4	7526.7	7331.8	7275.2	7245.3	7294.0	7264.2	7367.9	7290.9	7215.4	6861.6
35°	8399.4	8503.2	8317.6	8207.6	8088.1	7985.9	7878.9	7905.7	7833.3	7718.6	7352.2
37.5°	9323.9	9514.2	9317.6	9199.7	8979.6	8779.9	8481.1	8356.9	8289.3	8184.0	7814.5
40°	10265.7	10374.2	10224.9	10124.2	9885.2	9572.3	9094.4	8831.8	8740.6	8638.4	8325.5
42.5°	10959.1	11062.9	10982.7	10913.5	10726.4	10363.2	9745.3	9416.7	9284.6	9169.8	8904.1
45°	11509.5	11586.5	11536.2	11561.3	11481.2	11129.0	10419.8	10044.0	9907.3	9767.3	9558.2
47.5°	11731.2	11812.9	11893.1	12042.5	12179.3	11919.8	11144.7	10723.3	10578.6	10435.6	10229.6
50°	11706.0	11789.3	12022.0	12339.6	12764.2	12677.7	11908.8	11446.6	11312.9	11149.4	10959.1
52.5°	11504.7	11599.1	11897.8	12426.1	13102.2	13245.3	12687.1	12193.4	12067.6	11872.7	11682.4
55°	10976.4	11033.0	11481.2	12229.6	13182.4	13641.5	13449.7	12989.0	12863.2	12591.2	12383.7
57.5°	9996.9	10078.6	10731.2	11699.7	12981.2	13910.4	14119.5	13825.5	13704.4	13312.9	13095.9
60°	8718.6	8849.1	9595.9	10809.8	12468.6	13908.8	14728.0	14647.8	14547.2	14023.6	13797.2
62.5°	7272.0	7423.0	8141.5	9551.9	11572.3	13514.2	15108.5	15336.5	15284.6	14679.3	14390.0
65°	5584.9	5688.7	6404.1	7924.5	10177.7	12666.7	15152.5	15806.6	15816.1	15177.7	14699.7
67.5°	3718.6	4017.3	4638.4	5946.6	8309.8	11281.5	14765.8	15883.7	15974.9	15349.1	14544.1
70°	1814.5	2207.6	2816.0	3864.8	5946.6	9157.3	13754.7	15251.6	15454.4	14849.1	13616.4
72.5°	753.1	880.5	1212.3	1907.2	3413.5	6179.3	11723.3	13537.8	13913.5	13157.3	11448.1
75°	507.9	550.3	693.4	978.0	1555.0	3047.2	8454.4	10094.4	10699.7	9937.1	8122.7
77.5°	391.5	418.2	504.7	684.0	924.5	1152.5	4525.2	6083.3	6396.2	5921.4	4226.4
80°	308.2	328.6	377.4	498.4	655.7	616.4	1542.5	2756.3	2937.1	2463.8	1358.5
82.5°	267.3	275.2	270.4	338.1	435.5	360.1	506.3	1017.3	1122.6	814.5	443.4
85°	193.4	215.4	224.8	209.1	231.1	182.4	207.5	360.1	396.2	353.8	250.0
87.5°	78.6	116.4	143.1	135.2	84.9	51.9	64.5	105.3	121.1	132.1	81.8
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°	3319.2	3319.2	3319.2	3319.2	3319.2	3319.2	3319.2	3319.2	3319.2	3319.2	3319.2
2.5°	3322.3	3333.3	3341.2	3350.6	3356.9	3366.4	3385.2	3396.2	3397.8	3405.7	3404.1
5°	3352.2	3367.9	3385.2	3410.4	3438.7	3462.3	3498.4	3523.6	3533.0	3540.9	3539.3
7.5°	3416.7	3438.7	3470.1	3514.2	3555.0	3586.5	3630.5	3660.4	3690.3	3701.3	3702.8
10°	3512.6	3544.0	3589.6	3649.4	3693.4	3734.3	3779.9	3805.0	3834.9	3847.5	3853.8
12.5°	3632.1	3665.1	3724.9	3808.2	3849.1	3877.4	3893.1	3886.8	3893.1	3904.1	3907.2
15°	3768.9	3805.0	3872.6	3962.3	3990.6	3965.4	3930.8	3899.4	3894.7	3897.8	3908.8
17.5°	3930.8	3957.6	4036.2	4111.6	4091.2	3987.4	3912.0	3861.6	3836.5	3828.6	3839.6
20°	4157.2	4157.2	4221.7	4268.9	4132.1	3956.0	3838.1	3756.3	3704.4	3682.4	3677.7
22.5°	4432.4	4407.2	4448.1	4415.1	4124.2	3867.9	3704.4	3562.9	3484.3	3452.8	3448.1
25°	4781.5	4751.6	4740.6	4536.2	4067.6	3728.0	3462.3	3290.9	3221.7	3204.4	3207.6
27.5°	5308.2	5232.7	5089.6	4602.2	3963.8	3507.9	3179.3	3020.4	2981.1	2982.7	2987.4
30°	6009.4	5858.5	5507.9	4613.2	3794.0	3196.5	2889.9	2776.7	2757.9	2765.7	2792.5
32.5°	6658.8	6515.7	5935.5	4562.9	3533.0	2891.5	2630.5	2555.0	2526.7	2536.2	2548.7
35°	7168.3	7128.9	6331.8	4492.1	3212.3	2605.4	2397.8	2333.3	2278.3	2265.7	2275.2
37.5°	7649.4	7633.7	6628.9	4393.1	2894.7	2402.5	2210.7	2125.8	2045.6	2001.6	2003.1
40°	8177.7	8162.0	6823.9	4240.6	2613.2	2226.4	2042.5	1930.8	1831.8	1751.6	1759.4
42.5°	8772.0	8679.3	6916.7	4022.0	2374.2	2077.0	1905.7	1754.7	1624.2	1550.3	1555.0
45°	9421.4	9212.3	6915.1	3743.7	2173.0	1940.3	1759.4	1545.6	1424.5	1355.3	1352.2
47.5°	10110.1	9721.7	6830.2	3435.5	1978.0	1789.3	1533.0	1369.5	1289.3	1246.9	1237.4
50°	10820.8	10198.1	6685.5	3081.8	1778.3	1617.9	1391.5	1279.9	1218.6	1179.2	1165.1
52.5°	11489.0	10630.5	6511.0	2680.8	1575.5	1451.3	1328.6	1242.1	1177.7	1133.7	1114.8
55°	12110.1	11003.2	6264.2	2270.4	1410.4	1339.6	1298.7	1226.4	1152.5	1100.6	1080.2
57.5°	12662.0	11245.3	5838.1	1885.2	1292.5	1262.6	1267.3	1199.7	1114.8	1070.8	1042.5
60°	13121.1	11423.0	5207.6	1528.3	1196.5	1187.1	1218.6	1149.4	1050.3	1000.0	978.0
62.5°	13396.3	11419.8	4434.0	1251.6	1114.8	1117.9	1154.1	1086.5	985.9	938.7	924.5
65°	13372.7	11140.0	3584.9	1070.8	1036.2	1039.3	1086.5	1017.3	932.4	904.1	902.5
67.5°	12899.4	10457.6	2750.0	952.8	949.7	963.8	1018.9	970.1	899.4	896.2	900.9
70°	11617.9	9040.9	1981.1	858.5	860.1	880.5	952.8	940.3	882.1	888.4	886.8
72.5°	9316.1	6893.1	1330.2	759.4	761.0	794.0	889.9	916.7	864.8	948.1	960.7
75°	6204.4	4298.8	855.3	654.1	655.7	698.1	834.9	871.1	817.6	945.0	952.8
77.5°	2981.1	1932.4	619.5	550.3	550.3	589.6	721.7	779.9	696.5	734.3	673.0
80°	1029.9	726.4	487.4	443.4	434.0	460.7	608.5	676.1	600.6	553.5	518.9
82.5°	405.7	377.4	391.5	344.3	312.9	330.2	473.3	558.2	441.8	399.4	397.8
85°	232.7	245.3	276.7	228.0	180.8	202.8	347.5	400.9	333.3	294.0	300.3
87.5°	62.9	86.5	127.4	117.9	81.8	86.5	165.1	221.7	191.8	147.8	152.5
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)