

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: P884966

Luminaire Tested: **NAV-SB6A-740-U-T2-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884966
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-740-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21435 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

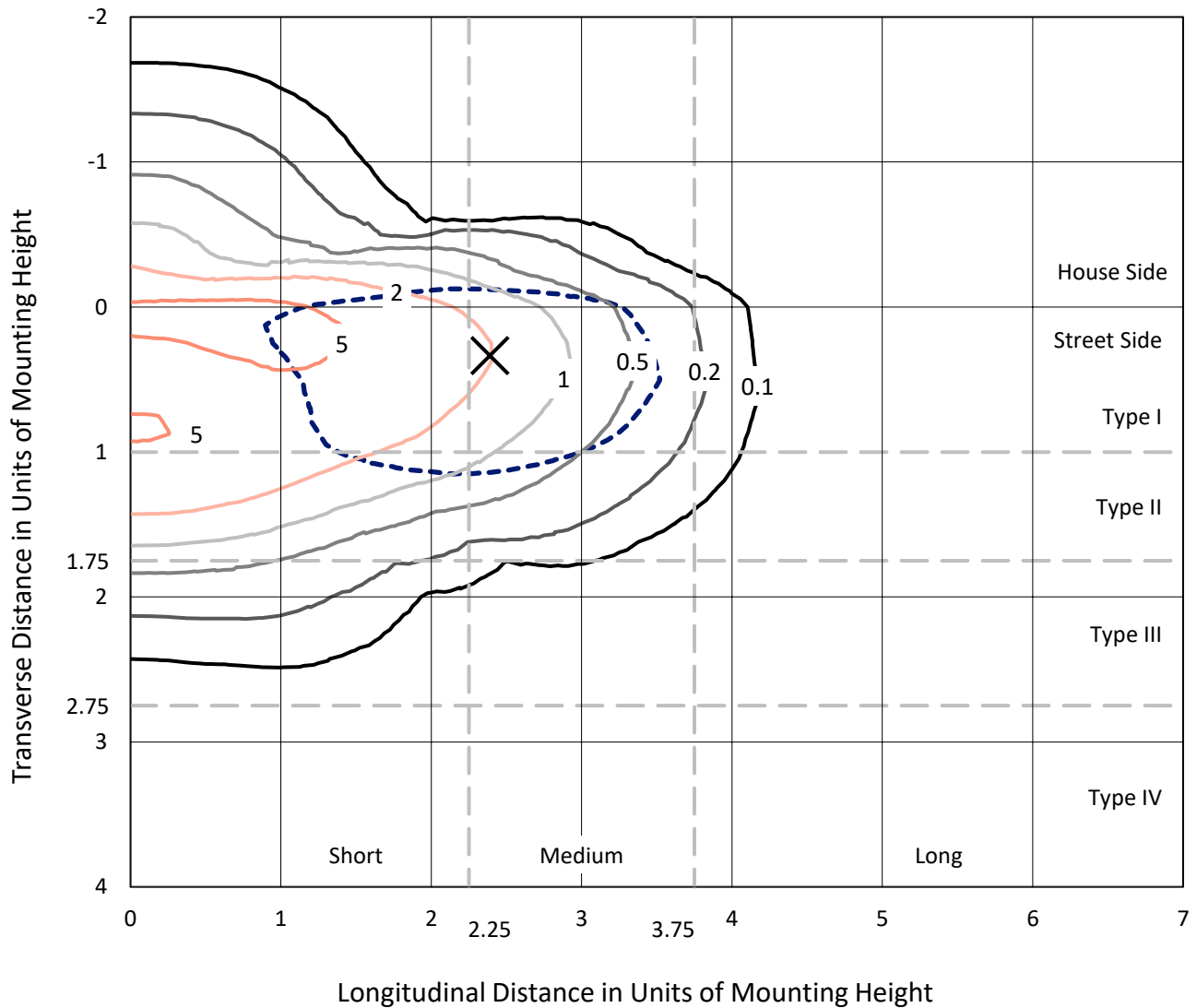
Input Watts (W): 170.9
Input Voltage (V): 120.0
Input Current (Ain): 1.434
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

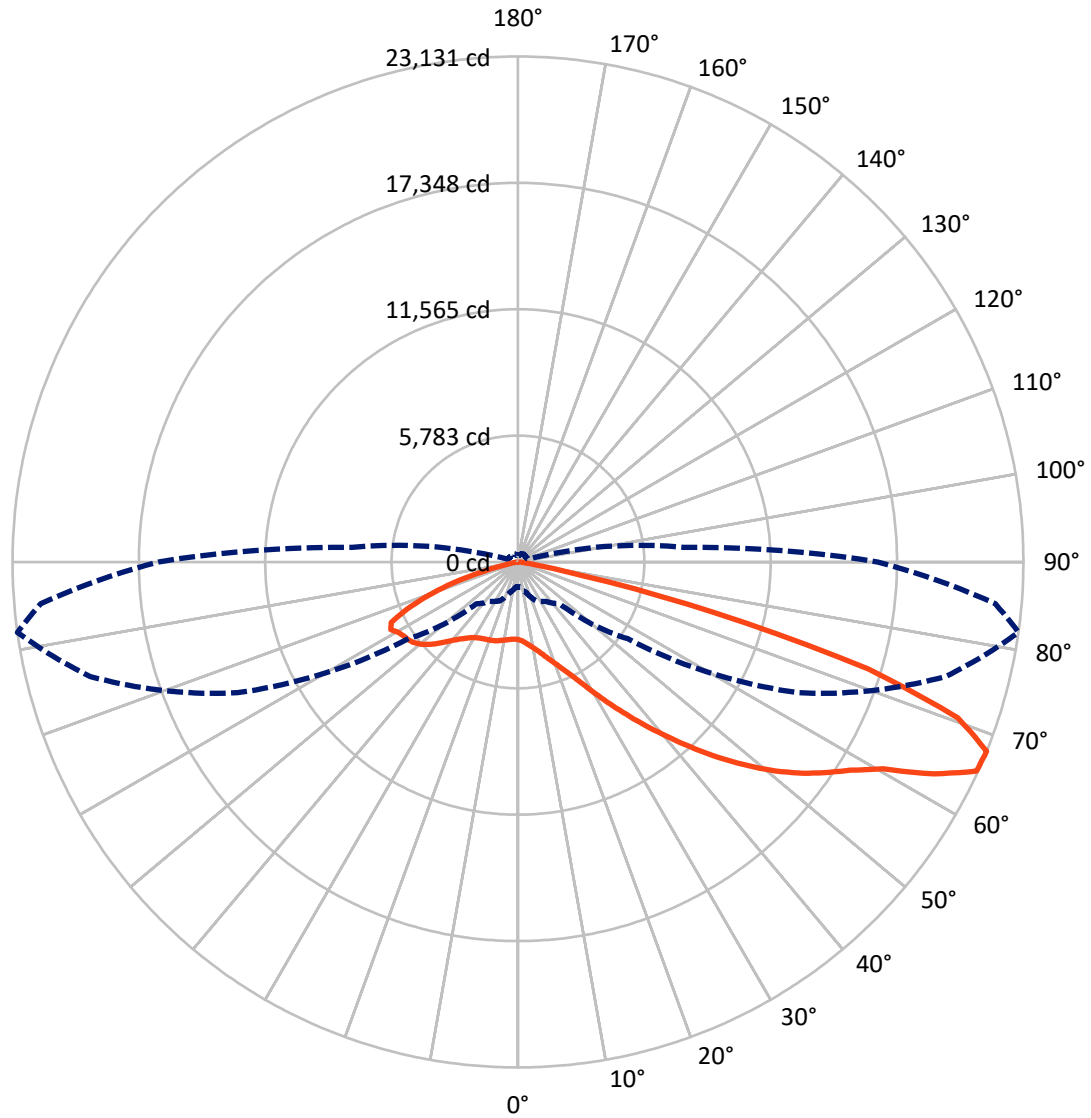
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3882.8	0.0	3882.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	17552.2	0.0	17552.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	21435.0	0.0	21435.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.4	1.5
10°-20°	822.1	3.8
20°-30°	1316.8	6.1
30°-40°	2328.5	10.9
40°-50°	4079.7	19.0
50°-60°	5441.2	25.4
60°-70°	5065.5	23.6
70°-80°	1944.1	9.1
80°-90°	120.8	0.6
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°	21435.0	100.0
0°-180°	21435.0	100.0

Coefficient of Utilization



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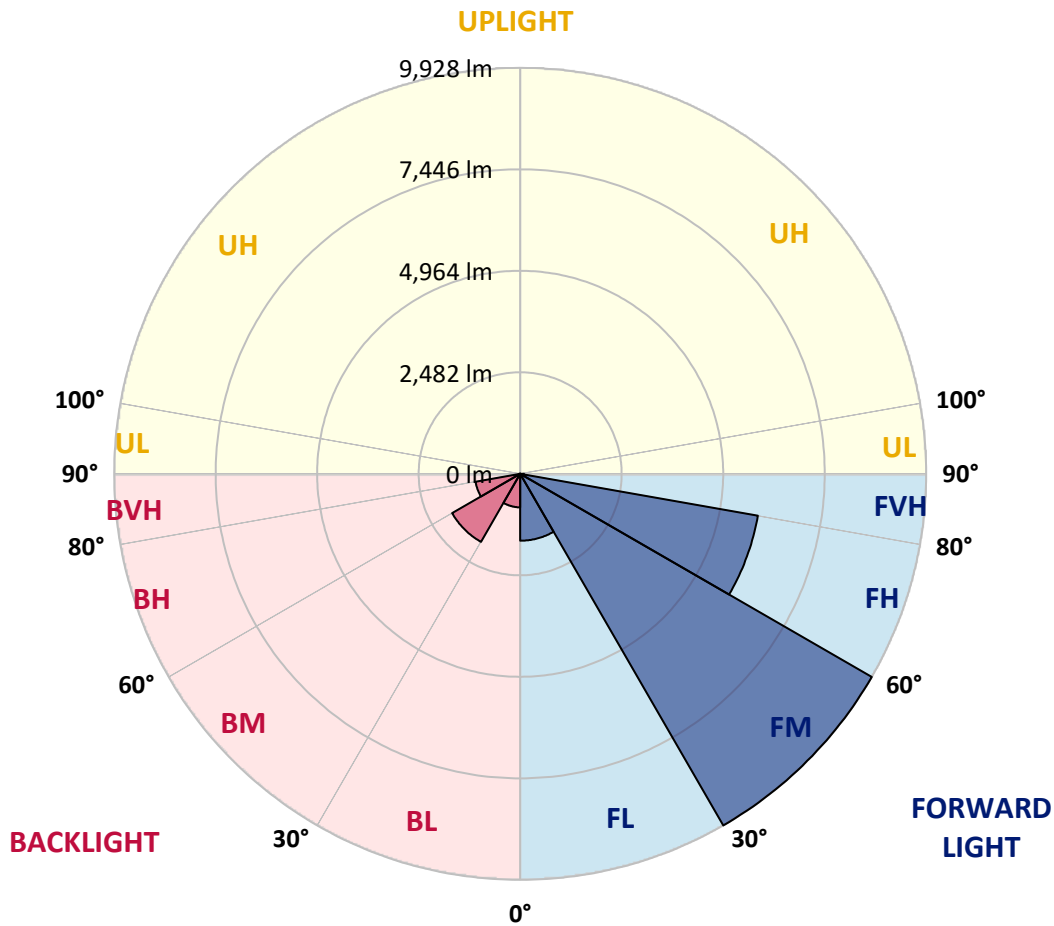
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1635.3	7.6			
FM (30°-60°)	9927.8	46.3			
FH (60°-80°)	5901.4	27.5			G3/7500
FVH (80°-90°)	87.8	0.4			G1/100
BL (0°-30°)	820.0	3.8	B2/1000		
BM (30°-60°)	1921.6	9.0	B2/2500		
BH (60°-80°)	1108.2	5.2	B3/2500		G3/2500
BVH (80°-90°)	33.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	3551.1	3551.1	3551.1	3551.1	3551.1	3551.1	3551.1	3551.1	3551.1	3551.1	3551.1
2.5°	3753.2	3774.8	3762.5	3756.3	3745.5	3730.1	3717.7	3679.1	3639.0	3612.8	3603.5
5°	3828.8	3850.4	3848.9	3855.1	3862.8	3867.4	3864.3	3821.1	3764.0	3719.3	3693.0
7.5°	3764.0	3788.7	3808.8	3839.6	3893.7	3950.8	3978.5	3969.3	3910.6	3848.9	3816.5
10°	3580.4	3606.6	3654.5	3727.0	3841.2	3964.6	4068.0	4115.9	4078.9	4010.9	3966.2
12.5°	3243.9	3270.2	3364.3	3521.7	3713.1	3927.6	4125.1	4253.2	4262.5	4194.6	4142.1
15°	2865.8	2892.1	2992.4	3189.9	3481.6	3825.8	4156.0	4398.3	4480.1	4421.5	4358.2
17.5°	2631.3	2654.4	2730.0	2889.0	3193.0	3622.0	4145.2	4552.6	4739.4	4693.1	4617.5
20°	2560.3	2580.3	2615.8	2727.0	2980.0	3410.6	4074.2	4697.7	5018.7	4992.5	4907.6
22.5°	2635.9	2654.4	2665.2	2714.6	2873.6	3271.7	3984.7	4845.9	5342.8	5345.9	5242.5
25°	2810.3	2828.8	2816.5	2847.3	2916.8	3228.5	3950.8	5020.2	5750.2	5784.2	5666.9
27.5°	3097.3	3098.9	3069.6	3068.0	3078.8	3293.3	3986.3	5207.0	6264.1	6327.4	6182.3
30°	3673.0	3649.8	3537.2	3415.2	3359.7	3487.8	4085.0	5427.7	6870.6	6983.3	6801.2
32.5°	4560.3	4526.4	4319.6	4027.9	3734.7	3801.1	4262.5	5679.2	7531.1	7734.8	7512.6
35°	5523.3	5514.1	5298.0	4864.4	4352.0	4247.1	4551.1	6009.5	8251.8	8575.9	8312.0
37.5°	6418.4	6413.8	6290.4	5779.5	5156.1	4869.0	5014.1	6441.6	9023.5	9492.6	9180.9
40°	7236.4	7250.3	7126.8	6670.0	6041.9	5666.9	5643.7	6975.6	9881.5	10491.1	10120.7
42.5°	7943.2	7958.6	7833.6	7495.6	6916.9	6549.6	6416.9	7629.9	10719.5	11563.7	11125.4
45°	8423.1	8518.8	8500.3	8230.2	7815.1	7433.9	7345.9	8450.9	11674.8	12701.1	12187.2
47.5°	8559.0	8646.9	8785.8	8822.8	8569.8	8194.7	8299.7	9440.2	12640.9	13840.0	13255.1
50°	8224.1	8305.9	8594.4	8978.7	9154.7	9038.9	9227.2	10500.4	13630.1	14975.8	14303.0
52.5°	7563.5	7646.9	8011.1	8619.1	9336.8	9701.0	10157.8	11545.2	14588.5	16051.5	15295.3
55°	6608.3	6696.2	7163.8	7852.1	8989.5	9974.1	10934.0	12588.4	15466.6	17019.1	16190.4
57.5°	5308.8	5373.7	5859.8	6822.8	8116.0	9702.5	11506.6	13727.3	16293.8	17969.8	17077.8
60°	3460.0	3517.1	4081.9	5156.1	6668.5	8795.1	11620.8	14997.5	17392.6	19205.9	18273.8
62.5°	2301.0	2339.6	2674.5	3463.1	4696.2	7052.7	10952.6	16011.4	19003.8	21357.3	20324.8
65°	1578.8	1617.3	1952.2	2501.6	3034.1	4665.3	9031.2	15877.1	20463.7	23065.6	21844.9
67.5°	1126.6	1159.0	1443.0	1961.5	2196.1	2710.0	6122.1	14161.0	20253.8	23130.5	21926.7
70°	807.1	825.6	1060.2	1527.8	1745.4	1628.1	3404.4	10830.6	17733.7	21358.8	20256.9
72.5°	564.8	571.0	736.1	1163.6	1405.9	1188.3	1620.4	7220.9	13412.5	16764.5	15704.3
75°	382.7	390.4	495.4	853.4	1128.1	907.4	858.1	3872.1	7873.7	9279.7	8318.2
77.5°	234.6	237.7	319.5	583.4	844.2	691.4	552.5	1640.5	3046.4	2990.8	2549.5
80°	132.7	132.7	203.7	362.7	575.6	446.0	387.4	697.6	964.5	847.3	746.9
82.5°	74.1	75.6	148.2	225.3	381.2	263.9	213.0	322.5	416.7	368.8	321.0
85°	30.9	34.0	91.1	106.5	182.1	131.2	86.4	135.8	154.3	137.4	100.3
87.5°	3.1	4.6	27.8	20.1	21.6	26.2	12.3	26.2	21.6	21.6	15.4
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°	3551.1	3551.1	3551.1	3551.1	3551.1	3551.1	3551.1	3551.1	3551.1	3551.1	3551.1
2.5°	3574.2	3551.1	3492.4	3424.5	3335.0	3291.8	3233.1	3193.0	3159.1	3162.2	3131.3
5°	3643.7	3585.0	3453.8	3290.2	3086.5	2941.5	2787.1	2680.7	2594.2	2575.7	2534.0
7.5°	3739.3	3646.7	3416.8	3122.0	2777.9	2517.1	2284.0	2134.3	2027.9	1993.9	1959.9
10°	3862.8	3728.5	3368.9	2910.6	2415.2	2083.4	1833.4	1716.1	1643.6	1618.9	1600.4
12.5°	4006.3	3822.7	3305.7	2652.9	2041.7	1722.3	1563.3	1504.7	1481.5	1473.8	1469.2
15°	4186.9	3940.0	3210.0	2347.3	1725.4	1501.6	1433.7	1426.0	1429.1	1426.0	1424.4
17.5°	4401.4	4068.0	3054.1	2032.5	1512.4	1388.9	1364.2	1370.4	1378.1	1376.6	1373.5
20°	4636.0	4194.6	2855.0	1753.1	1367.3	1308.7	1294.8	1301.0	1307.1	1304.1	1302.5
22.5°	4903.0	4330.4	2634.4	1535.5	1270.1	1234.6	1219.2	1220.7	1220.7	1214.6	1211.5
25°	5222.4	4480.1	2402.9	1381.2	1196.0	1168.3	1149.7	1143.6	1134.3	1115.8	1112.7
27.5°	5603.6	4639.1	2180.6	1273.2	1137.4	1111.2	1089.5	1074.1	1051.0	1020.1	1017.0
30°	6032.6	4832.0	1992.4	1205.3	1091.1	1064.9	1040.2	1017.0	983.1	944.5	941.4
32.5°	6537.3	5038.8	1855.0	1160.5	1049.4	1021.6	992.3	964.5	927.5	888.9	890.5
35°	7139.1	5288.8	1774.8	1129.7	1017.0	980.0	947.6	916.7	888.9	855.0	851.9
37.5°	7791.9	5554.2	1750.1	1114.2	995.4	938.3	901.3	879.7	876.6	856.5	855.0
40°	8506.5	5869.0	1768.6	1105.0	972.3	898.2	858.1	853.4	861.1	825.6	827.2
42.5°	9262.7	6242.5	1799.4	1094.2	939.8	858.1	819.5	819.5	813.3	763.9	763.9
45°	10080.6	6673.1	1830.3	1067.9	901.3	817.9	788.6	777.8	751.6	703.7	702.2
47.5°	10904.7	7111.4	1853.5	1020.1	855.0	784.0	757.7	733.1	694.5	651.3	649.7
50°	11687.2	7504.9	1828.8	949.1	802.5	751.6	723.8	689.8	648.2	618.8	614.2
52.5°	12386.2	7846.0	1723.8	865.8	746.9	717.6	692.9	657.4	623.5	592.6	589.5
55°	12994.3	8122.2	1538.6	787.1	697.6	688.3	663.6	618.8	572.6	546.3	543.2
57.5°	13577.7	8332.1	1307.1	722.2	652.8	655.9	618.8	578.7	535.5	507.7	504.6
60°	14353.9	8613.0	1072.6	662.1	605.0	614.2	574.1	544.8	490.8	455.3	450.6
62.5°	15594.7	9049.7	851.9	588.0	549.4	552.5	535.5	500.0	435.2	393.5	390.4
65°	16579.3	8889.2	671.3	507.7	486.1	490.8	490.8	452.2	382.7	334.9	330.3
67.5°	16468.2	7611.4	535.5	429.0	425.9	429.0	439.8	407.4	339.5	300.9	294.8
70°	15170.3	6054.2	429.0	356.5	370.4	362.7	393.5	371.9	305.6	267.0	262.4
72.5°	12378.5	4361.3	327.2	294.8	284.0	296.3	355.0	334.9	254.6	211.4	206.8
75°	7233.3	2327.2	243.8	233.0	205.3	246.9	314.8	285.5	194.5	155.9	151.2
77.5°	2355.0	811.8	179.0	171.3	152.8	199.1	268.5	240.7	159.0	123.5	118.8
80°	631.2	245.4	121.9	112.7	98.8	148.2	213.0	191.4	114.2	80.2	78.7
82.5°	253.1	103.4	71.0	63.3	54.0	101.9	168.2	154.3	84.9	50.9	50.9
85°	81.8	34.0	26.2	20.1	24.7	63.3	100.3	104.9	60.2	26.2	20.1
87.5°	10.8	4.6	4.6	6.2	4.6	10.8	30.9	29.3	17.0	3.1	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)