

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: P883926

Luminaire Tested: **NAV-SB4C-730-U-T2-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883926
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-SB4C-730-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 615mA 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: 21817 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

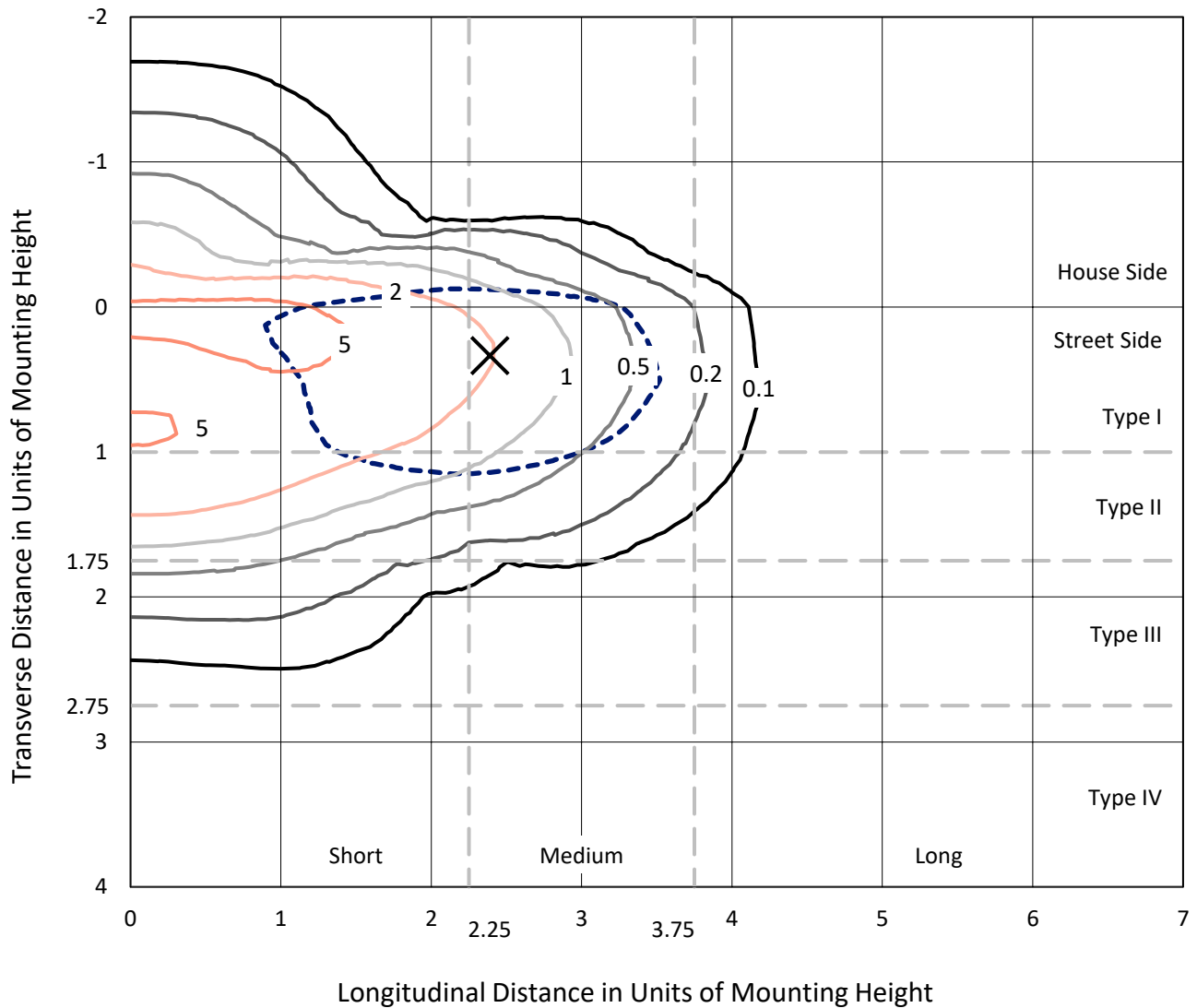
Input Watts (W): 200.7
Input Voltage (V): 120.0
Input Current (Ain): 1.714
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.472
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

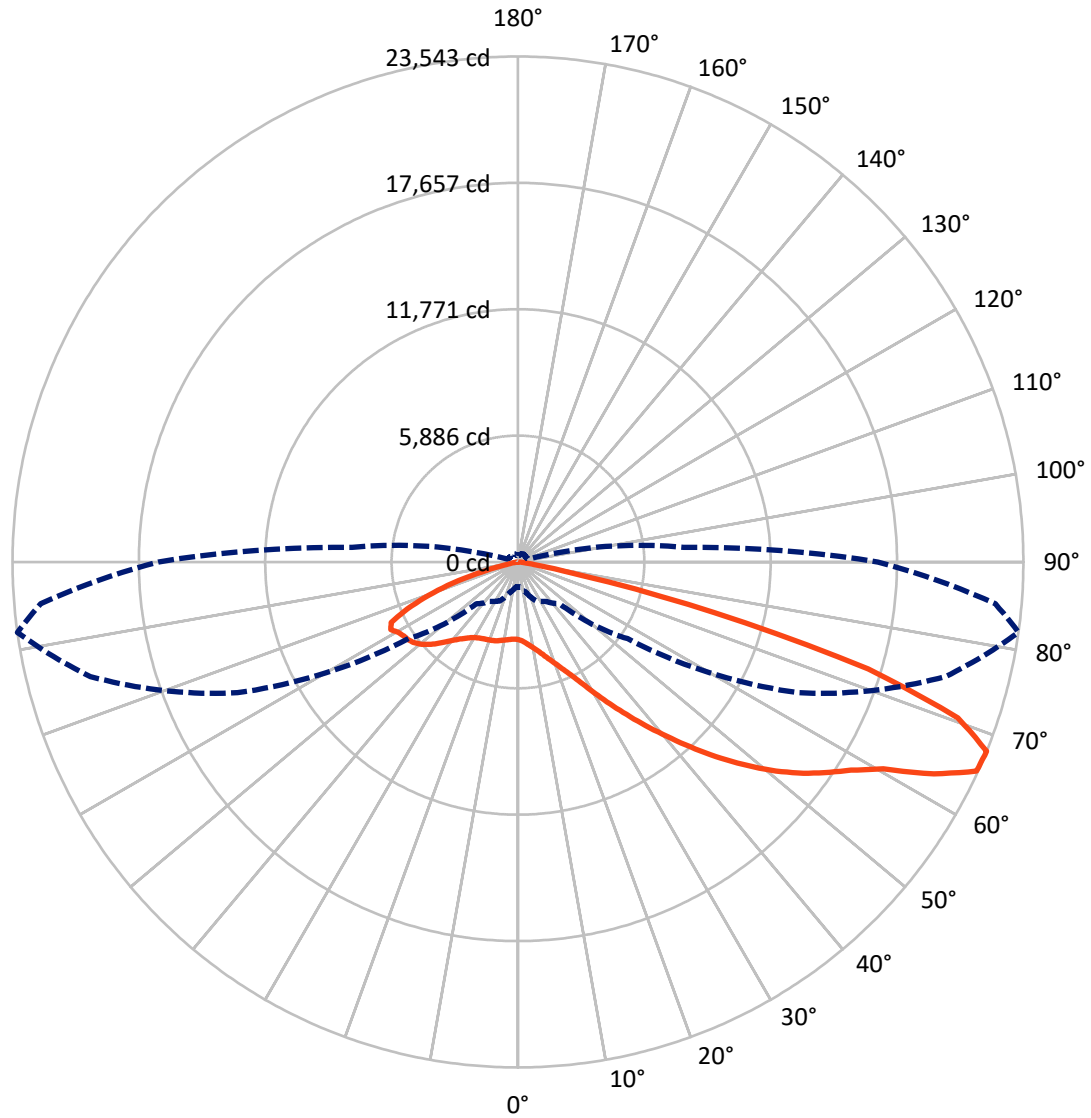
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	3952.0	0.0	3952.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	17865.1	0.0	17865.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	21817.0	0.0	21817.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.0	1.5
10°-20°	836.8	3.8
20°-30°	1340.2	6.1
30°-40°	2370.0	10.9
40°-50°	4152.4	19.0
50°-60°	5538.2	25.4
60°-70°	5155.7	23.6
70°-80°	1978.8	9.1
80°-90°	122.9	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°	21817.0	100.0
0°-180°	21817.0	100.0

Coefficient of Utilization



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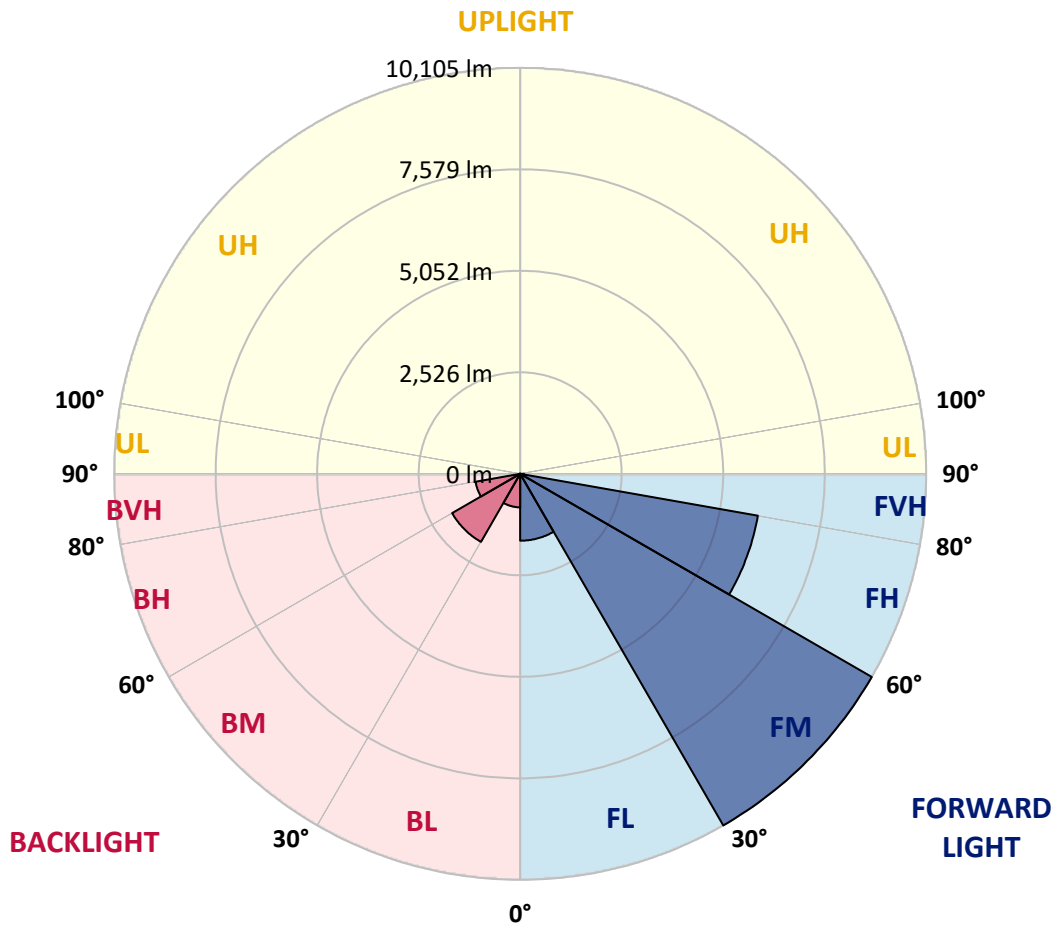
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1664.4	7.6			
FM (30°-60°)	10104.8	46.3			
FH (60°-80°)	6006.5	27.5			G3/7500
FVH (80°-90°)	89.4	0.4			G1/100
BL (0°-30°)	834.6	3.8	B2/1000		
BM (30°-60°)	1955.8	9.0	B2/2500		
BH (60°-80°)	1128.0	5.2	B3/2500		G3/2500
BVH (80°-90°)	33.5	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°	3614.3	3614.3	3614.3	3614.3	3614.3	3614.3	3614.3	3614.3	3614.3	3614.3	3614.3
2.5°	3820.1	3842.1	3829.5	3823.3	3812.3	3796.5	3784.0	3744.7	3703.9	3677.2	3667.7
5°	3897.1	3919.1	3917.5	3923.8	3931.6	3936.3	3933.2	3889.2	3831.1	3785.6	3758.8
7.5°	3831.1	3856.2	3876.7	3908.1	3963.0	4021.2	4049.4	4040.0	3980.3	3917.5	3884.5
10°	3644.2	3670.9	3719.6	3793.4	3909.6	4035.3	4140.5	4189.2	4151.5	4082.4	4036.9
12.5°	3301.8	3328.5	3424.3	3584.5	3779.3	3997.6	4198.7	4329.0	4338.5	4269.3	4215.9
15°	2916.9	2943.6	3045.7	3246.8	3543.7	3893.9	4230.1	4476.7	4559.9	4500.3	4435.9
17.5°	2678.2	2701.7	2778.7	2940.5	3249.9	3686.6	4219.1	4633.8	4823.8	4776.7	4699.7
20°	2605.9	2626.3	2662.5	2775.5	3033.2	3471.4	4146.8	4781.4	5108.1	5081.4	4995.0
22.5°	2682.9	2701.7	2712.7	2763.0	2924.8	3330.0	4055.7	4932.2	5438.0	5441.1	5335.9
25°	2860.4	2879.2	2866.7	2898.1	2968.8	3286.0	4021.2	5109.7	5852.7	5887.2	5767.9
27.5°	3152.5	3154.1	3124.3	3122.7	3133.7	3352.0	4057.3	5299.8	6375.7	6440.2	6292.5
30°	3738.4	3714.9	3600.2	3476.1	3419.6	3549.9	4157.8	5524.4	6993.1	7107.7	6922.4
32.5°	4641.6	4607.1	4396.6	4099.7	3801.3	3868.8	4338.5	5780.4	7665.4	7872.7	7646.5
35°	5621.8	5612.4	5392.4	4951.1	4429.6	4322.8	4632.2	6116.6	8398.9	8728.8	8460.2
37.5°	6532.8	6528.1	6402.5	5882.5	5247.9	4955.8	5103.4	6556.4	9184.3	9661.8	9344.5
40°	7365.3	7379.5	7253.8	6788.9	6149.6	5767.9	5744.3	7099.9	10057.6	10678.1	10301.1
42.5°	8084.7	8100.5	7973.2	7629.2	7040.2	6666.3	6531.3	7765.9	10910.6	11769.8	11323.7
45°	8573.3	8670.6	8651.8	8376.9	7954.4	7566.4	7476.9	8601.5	11882.9	12927.4	12404.4
47.5°	8711.5	8801.0	8942.4	8980.1	8722.5	8340.8	8447.6	9608.4	12866.2	14086.7	13491.3
50°	8370.6	8453.9	8747.6	9138.7	9317.8	9200.0	9391.6	10687.5	13873.0	15242.7	14557.9
52.5°	7698.3	7783.2	8153.9	8772.7	9503.2	9873.9	10338.8	11750.9	14848.5	16337.6	15567.9
55°	6726.0	6815.6	7291.5	7992.1	9149.7	10151.9	11128.9	12812.8	15742.2	17322.4	16478.9
57.5°	5403.4	5469.4	5964.2	6944.4	8260.7	9875.4	11711.7	13972.0	16584.2	18290.0	17382.1
60°	3521.7	3579.8	4154.7	5247.9	6787.3	8951.8	11827.9	15264.7	17702.6	19548.2	18599.5
62.5°	2342.0	2381.3	2722.1	3524.8	4779.8	7178.4	11147.7	16296.7	19342.4	21737.9	20687.0
65°	1606.9	1646.2	1987.0	2546.2	3088.1	4748.4	9192.1	16160.1	20828.4	23476.7	22234.2
67.5°	1146.7	1179.6	1468.7	1996.4	2235.2	2758.3	6231.2	14413.4	20614.8	23542.7	22317.5
70°	821.5	840.4	1079.1	1555.1	1776.5	1657.2	3465.1	11023.7	18049.7	21739.4	20617.9
72.5°	574.9	581.2	749.3	1184.4	1431.0	1209.5	1649.3	7349.6	13651.6	17063.3	15984.1
75°	389.6	397.4	504.2	868.6	1148.2	923.6	873.3	3941.1	8014.1	9445.0	8466.4
77.5°	238.8	241.9	325.1	593.8	859.2	703.7	562.3	1669.7	3100.7	3044.1	2594.9
80°	135.1	135.1	207.3	369.1	585.9	454.0	394.3	710.0	981.7	862.4	760.3
82.5°	75.4	77.0	150.8	229.3	388.0	268.6	216.8	328.3	424.1	375.4	326.7
85°	31.4	34.6	92.7	108.4	185.4	133.5	88.0	138.2	157.1	139.8	102.1
87.5°	3.1	4.7	28.3	20.4	22.0	26.7	12.6	26.7	22.0	22.0	15.7
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°	3614.3	3614.3	3614.3	3614.3	3614.3	3614.3	3614.3	3614.3	3614.3	3614.3	3614.3
2.5°	3637.9	3614.3	3554.6	3485.5	3394.4	3350.4	3290.8	3249.9	3215.4	3218.5	3187.1
5°	3708.6	3648.9	3515.4	3348.9	3141.5	2993.9	2836.8	2728.4	2640.5	2621.6	2579.2
7.5°	3806.0	3711.7	3477.7	3177.7	2827.4	2561.9	2324.7	2172.4	2064.0	2029.4	1994.9
10°	3931.6	3795.0	3429.0	2962.5	2458.3	2120.5	1866.1	1746.7	1672.9	1647.7	1628.9
12.5°	4077.7	3890.8	3364.6	2700.2	2078.1	1753.0	1591.2	1531.5	1507.9	1500.1	1495.4
15°	4261.5	4010.2	3267.2	2389.1	1756.1	1528.4	1459.2	1451.4	1454.5	1451.4	1449.8
17.5°	4479.8	4140.5	3108.6	2068.7	1539.4	1413.7	1388.6	1394.8	1402.7	1401.1	1398.0
20°	4718.6	4269.3	2905.9	1784.4	1391.7	1332.0	1317.9	1324.2	1330.4	1327.3	1325.7
22.5°	4990.3	4407.6	2681.3	1562.9	1292.7	1256.6	1240.9	1242.5	1242.5	1236.2	1233.1
25°	5315.5	4559.9	2445.7	1405.8	1217.3	1189.1	1170.2	1163.9	1154.5	1135.7	1132.5
27.5°	5703.5	4721.7	2219.5	1295.9	1157.7	1131.0	1109.0	1093.3	1069.7	1038.3	1035.1
30°	6140.1	4918.1	2027.9	1226.8	1110.5	1083.8	1058.7	1035.1	1000.6	961.3	958.2
32.5°	6653.8	5128.6	1888.1	1181.2	1068.1	1039.8	1010.0	981.7	944.0	904.8	906.3
35°	7266.4	5383.0	1806.4	1149.8	1035.1	997.4	964.5	933.0	904.8	870.2	867.1
37.5°	7930.8	5653.2	1781.3	1134.1	1013.1	955.0	917.3	895.3	892.2	871.8	870.2
40°	8658.1	5973.6	1800.1	1124.7	989.6	914.2	873.3	868.6	876.5	840.4	841.9
42.5°	9427.8	6353.8	1831.5	1113.7	956.6	873.3	834.1	834.1	827.8	777.5	777.5
45°	10260.3	6792.0	1862.9	1087.0	917.3	832.5	802.7	791.7	765.0	716.3	714.7
47.5°	11099.1	7238.1	1886.5	1038.3	870.2	798.0	771.2	746.1	706.8	662.9	661.3
50°	11895.4	7638.6	1861.4	966.0	816.8	765.0	736.7	702.1	659.7	629.9	625.2
52.5°	12607.0	7985.8	1754.5	881.2	760.3	730.4	705.3	669.1	634.6	603.2	600.0
55°	13225.9	8267.0	1566.1	801.1	710.0	700.6	675.4	629.9	582.8	556.1	552.9
57.5°	13819.6	8480.6	1330.4	735.1	664.4	667.6	629.9	589.0	545.1	516.8	513.6
60°	14609.7	8766.5	1091.7	673.9	615.7	625.2	584.3	554.5	499.5	463.4	458.7
62.5°	15872.6	9211.0	867.1	598.5	559.2	562.3	545.1	508.9	443.0	400.5	397.4
65°	16874.8	9047.6	683.3	516.8	494.8	499.5	499.5	460.2	389.6	340.9	336.1
67.5°	16761.7	7747.0	545.1	436.7	433.5	436.7	447.7	414.7	345.6	306.3	300.0
70°	15440.7	6162.1	436.7	362.8	377.0	369.1	400.5	378.6	311.0	271.7	267.0
72.5°	12599.1	4439.0	333.0	300.0	289.0	301.6	361.3	340.9	259.2	215.2	210.5
75°	7362.2	2368.7	248.2	237.2	208.9	251.3	320.4	290.6	197.9	158.6	153.9
77.5°	2397.0	826.2	182.2	174.4	155.5	202.6	273.3	245.0	161.8	125.7	120.9
80°	642.4	249.8	124.1	114.7	100.5	150.8	216.8	194.8	116.2	81.7	80.1
82.5°	257.6	105.2	72.3	64.4	55.0	103.7	171.2	157.1	86.4	51.8	51.8
85°	83.3	34.6	26.7	20.4	25.1	64.4	102.1	106.8	61.3	26.7	20.4
87.5°	11.0	4.7	4.7	6.3	4.7	11.0	31.4	29.8	17.3	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)