

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: P969806

Luminaire Tested: **NAV-SB6A-730-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969806
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-730-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20360.6 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

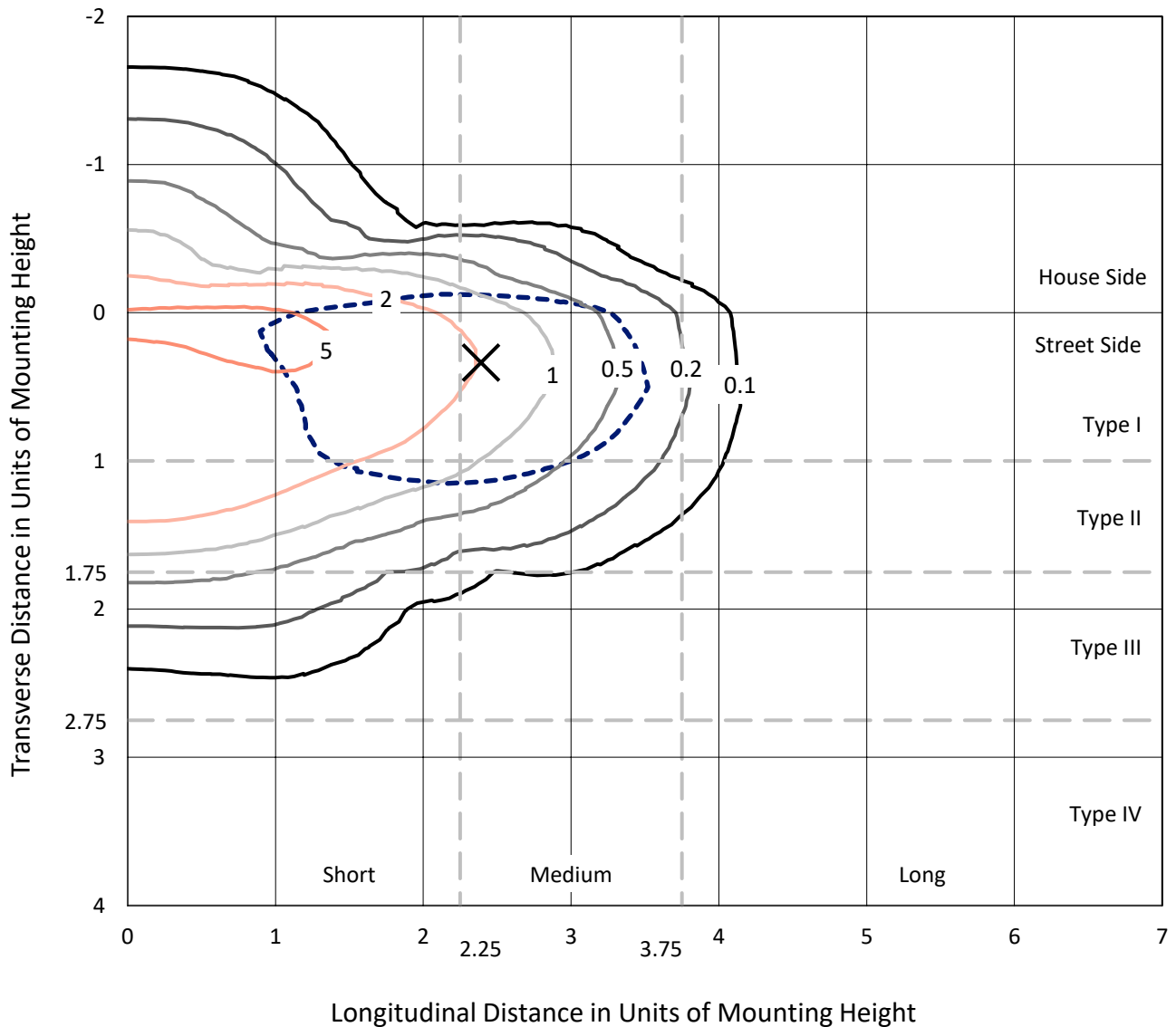
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

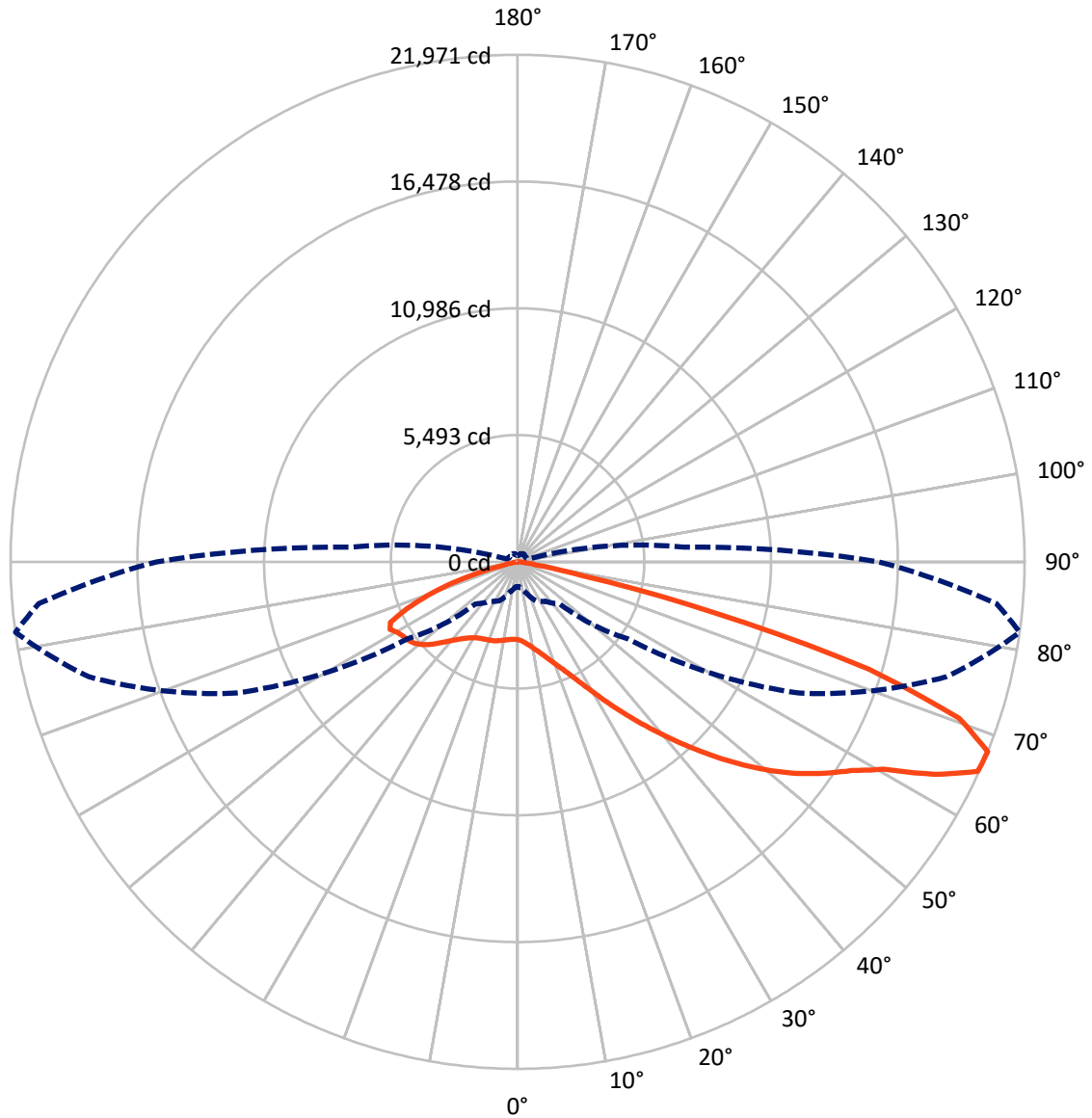
× Max cd
 - - - 1/2 Max cd



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3688.1	0.0	3688.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	16672.5	0.0	16672.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	20360.6	0.0	20360.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.5	1.5
10°-20°	780.9	3.8
20°-30°	1250.8	6.1
30°-40°	2211.8	10.9
40°-50°	3875.2	19.0
50°-60°	5168.5	25.4
60°-70°	4811.6	23.6
70°-80°	1846.7	9.1
80°-90°	114.7	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°	20360.6	100.0
0°-180°	20360.6	100.0

Coefficient of Utilization

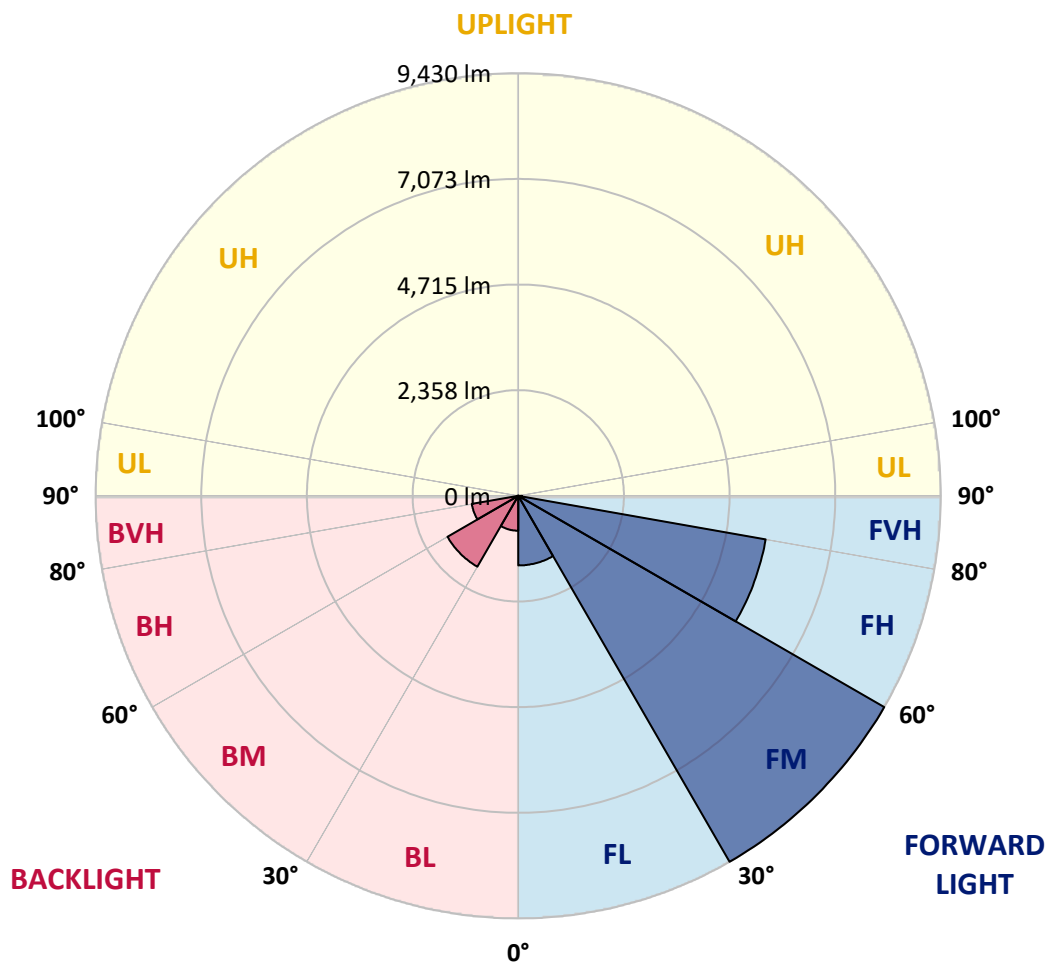


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1553.3	7.6			
FM (30°-60°)	9430.2	46.3			
FH (60°-80°)	5605.6	27.5			G3/7500
FVH (80°-90°)	83.4	0.4			G1/100
BL (0°-30°)	778.9	3.8	B2/1000		
BM (30°-60°)	1825.2	9.0	B2/2500		
BH (60°-80°)	1052.7	5.2	B3/2500		G3/2500
BVH (80°-90°)	31.3	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°	3373.1	3373.1	3373.1	3373.1	3373.1	3373.1	3373.1	3373.1	3373.1	3373.1	3373.1
2.5°	3565.1	3585.7	3573.9	3568.0	3557.8	3543.1	3531.3	3494.7	3456.6	3431.7	3422.9
5°	3636.9	3657.4	3656.0	3661.8	3669.2	3673.6	3670.6	3629.6	3575.4	3532.9	3508.0
7.5°	3575.4	3598.8	3617.8	3647.2	3698.5	3752.7	3779.1	3770.4	3714.6	3656.0	3625.2
10°	3401.0	3425.9	3471.3	3540.1	3648.7	3766.0	3864.1	3909.6	3874.4	3809.9	3767.4
12.5°	3081.4	3106.3	3195.6	3345.2	3527.0	3730.8	3918.4	4040.0	4048.9	3984.4	3934.5
15°	2722.2	2747.1	2842.4	3030.0	3307.1	3634.0	3947.7	4177.8	4255.5	4199.8	4139.8
17.5°	2499.4	2521.4	2593.1	2744.2	3033.0	3440.5	3937.4	4324.5	4501.8	4457.8	4386.0
20°	2431.9	2451.0	2484.7	2590.3	2830.6	3239.6	3870.0	4462.2	4767.2	4742.3	4661.6
22.5°	2503.8	2521.4	2531.6	2578.5	2729.6	3107.7	3785.0	4603.0	5075.0	5078.0	4979.7
25°	2669.4	2687.0	2675.2	2704.6	2770.6	3066.7	3752.7	4768.6	5462.0	5494.2	5382.8
27.5°	2942.1	2943.6	2915.7	2914.3	2924.5	3128.3	3786.5	4946.0	5950.1	6010.2	5872.4
30°	3488.9	3466.9	3359.8	3244.0	3191.3	3313.0	3880.2	5155.6	6526.3	6633.3	6460.3
32.5°	4331.8	4299.6	4103.1	3826.0	3547.5	3610.6	4048.9	5394.6	7153.7	7347.1	7136.0
35°	5246.5	5237.8	5032.4	4620.6	4133.8	4034.2	4322.9	5708.2	7838.3	8146.1	7895.4
37.5°	6096.7	6092.3	5975.0	5489.8	4897.7	4624.9	4762.8	6118.7	8571.2	9016.8	8720.7
40°	6873.6	6886.9	6769.6	6335.6	5739.1	5382.8	5360.9	6625.9	9386.2	9965.3	9613.5
42.5°	7545.0	7559.7	7441.0	7120.0	6570.2	6221.3	6095.3	7247.5	10182.2	10984.1	10567.7
45°	8000.9	8091.9	8074.2	7817.7	7423.4	7061.3	6977.8	8027.3	11089.6	12064.5	11576.3
47.5°	8130.0	8213.5	8345.4	8380.6	8140.2	7784.0	7883.7	8967.0	12007.3	13146.3	12590.7
50°	7811.8	7889.5	8163.6	8528.7	8695.8	8585.8	8764.7	9974.1	12947.0	14225.2	13586.1
52.5°	7184.4	7263.6	7609.5	8187.1	8868.8	9214.8	9648.6	10966.5	13857.3	15247.0	14528.7
55°	6277.0	6360.6	6804.8	7458.5	8539.0	9474.2	10386.0	11957.4	14691.3	16166.1	15378.9
57.5°	5042.7	5104.3	5566.1	6480.8	7709.2	9216.2	10929.9	13039.3	15477.1	17069.1	16221.8
60°	3286.6	3340.8	3877.4	4897.7	6334.2	8354.3	11038.3	14245.8	16520.8	18243.3	17357.9
62.5°	2185.7	2222.3	2540.5	3289.5	4460.8	6699.2	10403.5	15208.8	18051.3	20286.8	19306.1
65°	1499.7	1536.3	1854.3	2376.3	2882.0	4431.5	8578.5	15081.3	19438.0	21909.5	20750.0
67.5°	1070.1	1100.8	1370.6	1863.1	2086.0	2574.2	5815.2	13451.2	19238.6	21971.1	20827.7
70°	766.7	784.2	1007.1	1451.3	1657.9	1546.5	3233.8	10287.7	16844.7	20288.2	19241.5
72.5°	536.5	542.4	699.3	1105.3	1335.5	1128.7	1539.2	6859.0	12740.2	15924.2	14917.1
75°	363.6	370.8	470.6	810.7	1071.5	861.9	815.1	3678.0	7479.1	8814.5	7901.2
77.5°	222.8	225.7	303.4	554.1	801.9	656.7	524.8	1558.3	2893.7	2840.9	2421.7
80°	126.1	126.1	193.5	344.5	546.7	423.6	368.0	662.6	916.1	804.8	709.5
82.5°	70.3	71.9	140.7	214.0	362.0	250.7	202.3	306.4	395.8	350.3	304.9
85°	29.3	32.3	86.5	101.2	173.0	124.6	82.1	129.0	146.6	130.5	95.3
87.5°	3.0	4.4	26.3	19.1	20.5	24.9	11.7	24.9	20.5	20.5	14.7
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°	3373.1	3373.1	3373.1	3373.1	3373.1	3373.1	3373.1	3373.1	3373.1	3373.1	3373.1
2.5°	3395.0	3373.1	3317.3	3252.8	3167.9	3126.8	3071.1	3033.0	3000.7	3003.7	2974.3
5°	3461.0	3405.4	3280.7	3125.3	2931.8	2794.0	2647.5	2546.3	2464.2	2446.6	2407.0
7.5°	3551.9	3464.0	3245.6	2965.5	2638.7	2390.9	2169.5	2027.3	1926.2	1894.0	1861.7
10°	3669.2	3541.7	3200.0	2764.7	2294.2	1979.0	1741.5	1630.1	1561.2	1537.7	1520.2
12.5°	3805.5	3631.1	3140.0	2519.9	1939.4	1636.0	1484.9	1429.3	1407.3	1399.9	1395.5
15°	3977.0	3742.5	3049.1	2229.7	1638.9	1426.3	1361.8	1354.5	1357.4	1354.5	1353.0
17.5°	4180.8	3864.1	2901.1	1930.6	1436.6	1319.3	1295.9	1301.8	1309.0	1307.6	1304.6
20°	4403.6	3984.4	2711.9	1665.3	1298.8	1243.1	1229.9	1235.7	1241.6	1238.7	1237.3
22.5°	4657.2	4113.3	2502.3	1458.6	1206.4	1172.7	1158.0	1159.6	1159.6	1153.6	1150.8
25°	4960.7	4255.5	2282.5	1312.0	1136.1	1109.7	1092.1	1086.2	1077.5	1059.8	1056.9
27.5°	5322.7	4406.6	2071.3	1209.4	1080.4	1055.4	1034.9	1020.3	998.2	968.9	966.1
30°	5730.3	4589.7	1892.5	1144.9	1036.4	1011.5	988.0	966.1	933.8	897.2	894.2
32.5°	6209.6	4786.2	1762.0	1102.4	996.8	970.5	942.6	916.1	881.0	844.4	845.8
35°	6781.3	5023.7	1685.8	1073.1	966.1	930.9	900.1	870.7	844.4	812.1	809.1
37.5°	7401.4	5275.8	1662.3	1058.4	945.6	891.2	856.1	835.6	832.6	813.5	812.1
40°	8080.1	5574.9	1680.0	1049.6	923.5	853.2	815.1	810.7	817.9	784.2	785.8
42.5°	8798.4	5929.6	1709.3	1039.4	892.8	815.1	778.4	778.4	772.5	725.6	725.6
45°	9575.3	6338.6	1738.6	1014.4	856.1	776.9	749.1	738.8	713.9	668.5	667.0
47.5°	10358.1	6755.0	1760.5	968.9	812.1	744.7	719.8	696.3	659.7	618.6	617.2
50°	11101.4	7128.8	1737.1	901.5	762.3	713.9	687.5	655.3	615.7	587.8	583.4
52.5°	11765.4	7452.7	1637.4	822.4	709.5	681.6	658.2	624.4	592.2	562.9	560.0
55°	12342.9	7715.1	1461.5	747.6	662.6	653.8	630.4	587.8	543.9	519.0	516.0
57.5°	12897.1	7914.4	1241.6	686.0	620.1	623.0	587.8	549.7	508.7	482.3	479.4
60°	13634.4	8181.2	1018.8	628.8	574.6	583.4	545.3	517.4	466.2	432.4	428.0
62.5°	14813.0	8596.1	809.1	558.5	521.8	524.8	508.7	475.0	413.4	373.8	370.8
65°	15748.3	8443.6	637.7	482.3	461.8	466.2	466.2	429.5	363.6	318.1	313.8
67.5°	15642.7	7229.8	508.7	407.5	404.6	407.5	417.8	387.0	322.5	285.9	280.0
70°	14409.9	5750.8	407.5	338.7	351.8	344.5	373.8	353.3	290.3	253.6	249.2
72.5°	11758.1	4142.6	310.8	280.0	269.7	281.5	337.1	318.1	241.9	200.8	196.4
75°	6870.7	2210.6	231.6	221.4	195.0	234.5	299.1	271.2	184.7	148.0	143.7
77.5°	2237.0	771.1	170.0	162.7	145.1	189.1	255.0	228.7	151.0	117.3	112.9
80°	599.5	233.1	115.8	107.0	93.8	140.7	202.3	181.7	108.4	76.3	74.7
82.5°	240.4	98.2	67.4	60.1	51.4	96.8	159.8	146.6	80.7	48.4	48.4
85°	77.7	32.3	24.9	19.1	23.5	60.1	95.3	99.7	57.2	24.9	19.1
87.5°	10.2	4.4	4.4	5.8	4.4	10.2	29.3	27.9	16.1	3.0	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)