

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: P883227

Luminaire Tested: **NAV-SB3C-722-U-T2**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883227
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-722-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17737 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

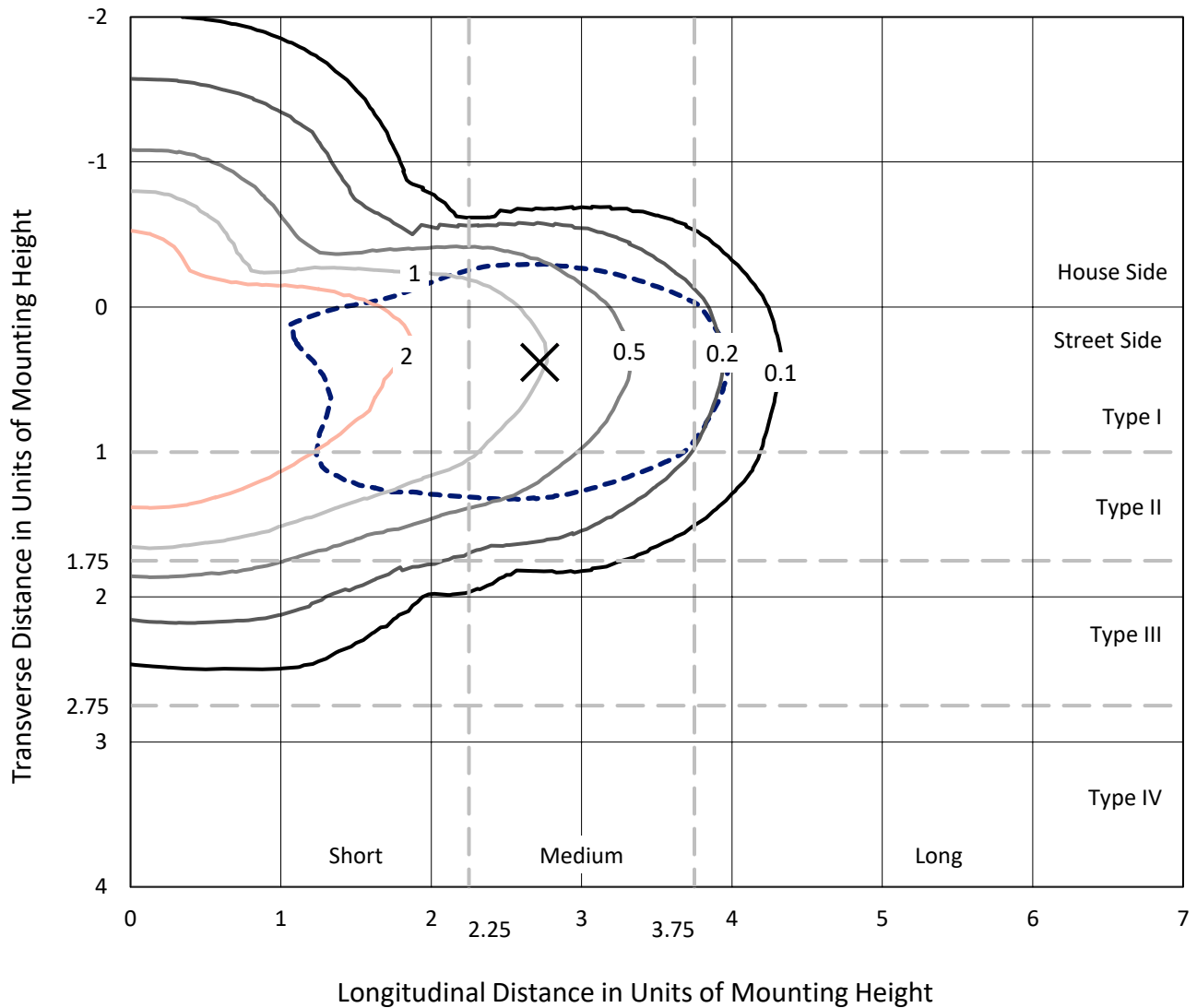
Input Watts (W): 149.1
Input Voltage (V): 120.0
Input Current (Ain): 1.259
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

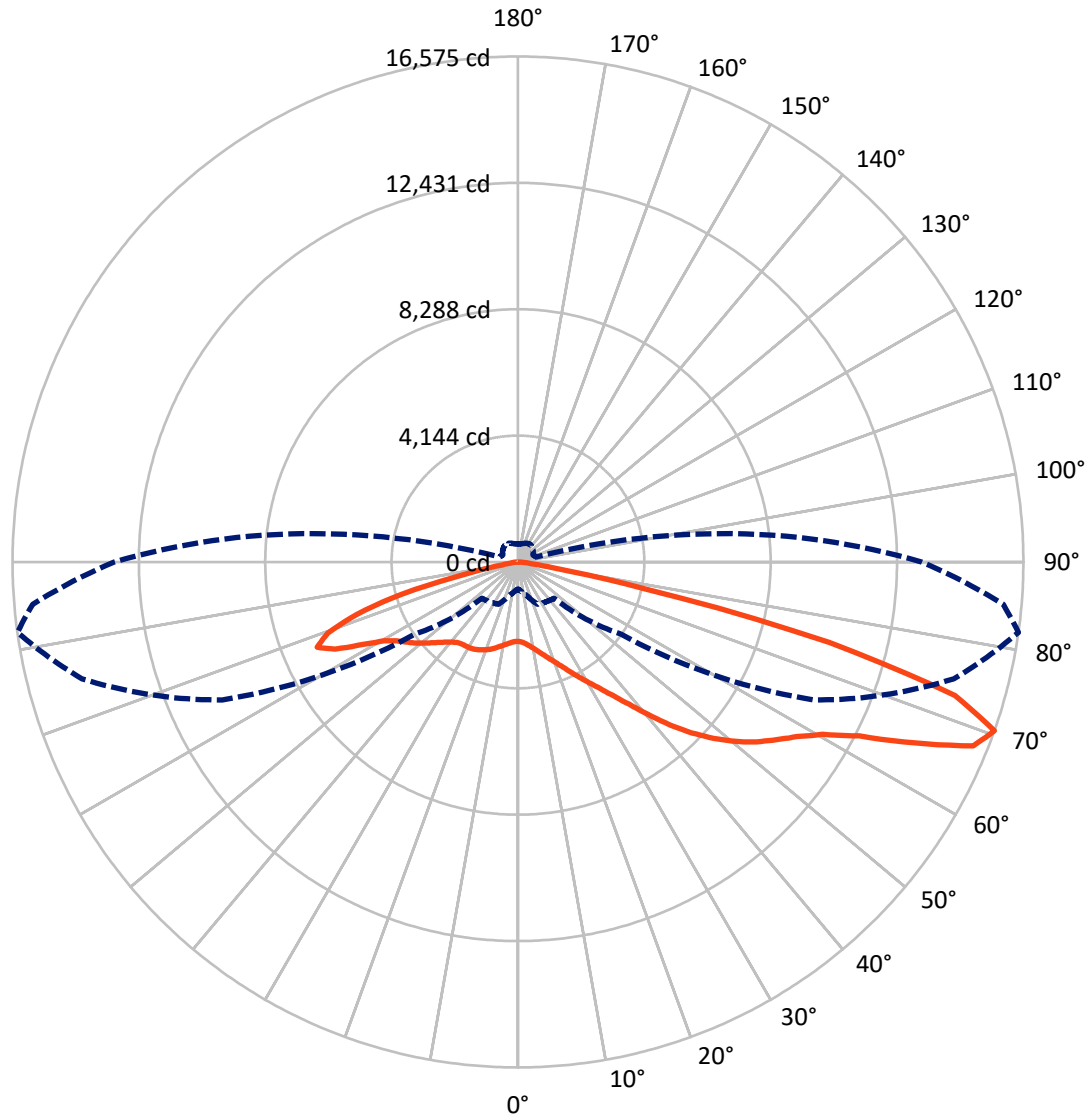
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4372.6	0.0	4372.6
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	13364.4	0.0	13364.4
	% Fixture	75.3	0.0	75.3
Total	Lumens	17737.0	0.0	17737.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.5	1.4
10°-20°	705.4	4.0
20°-30°	1180.1	6.7
30°-40°	1843.6	10.4
40°-50°	2936.2	16.6
50°-60°	4086.1	23.0
60°-70°	4274.2	24.1
70°-80°	2233.9	12.6
80°-90°	232.0	1.3
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°	17737.0	100.0
0°-180°	17737.0	100.0

Coefficient of Utilization



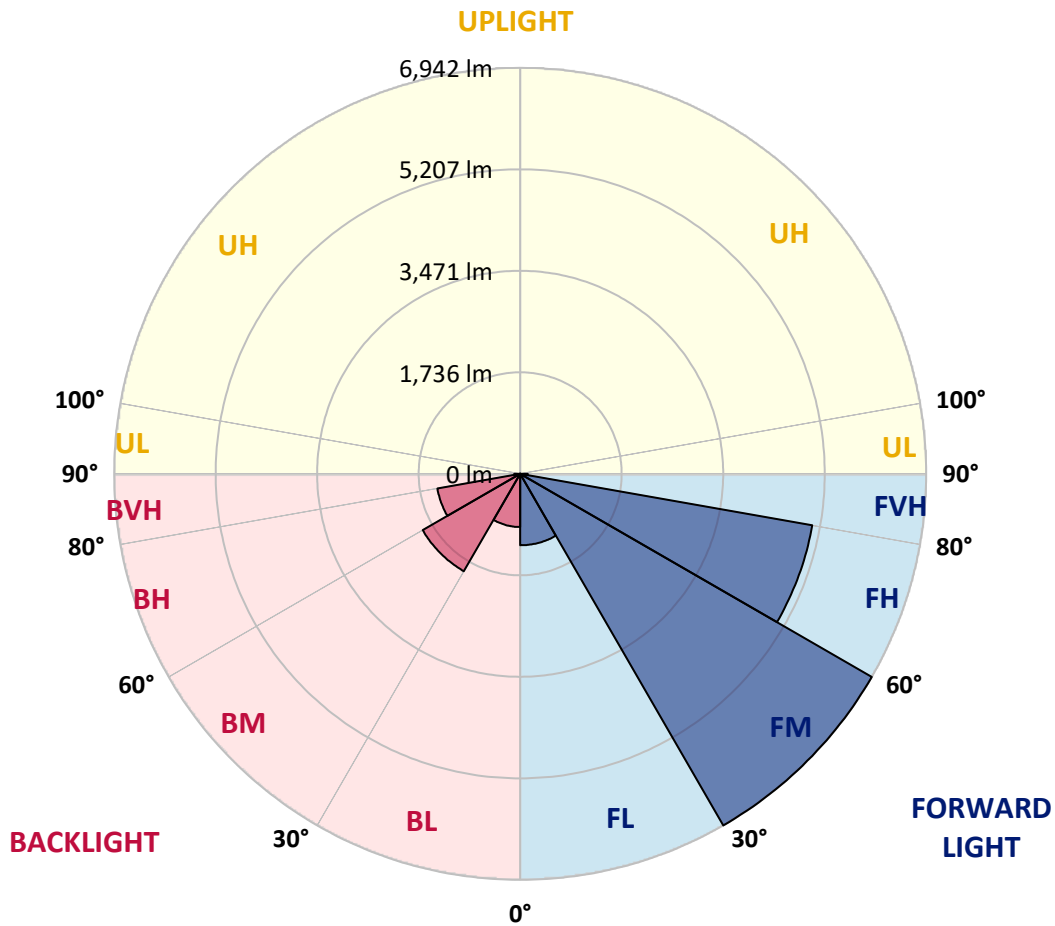
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1221.4	6.9			
FM (30°-60°)	6942.1	39.1			
FH (60°-80°)	5071.1	28.6			G3/7500
FVH (80°-90°)	129.9	0.7			G2/225
BL (0°-30°)	909.7	5.1	B2/1000		
BM (30°-60°)	1923.8	10.8	B2/2500		
BH (60°-80°)	1437.1	8.1	B3/2500		G3/2500
BVH (80°-90°)	102.1	0.6			G2/225
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°	2600.5	2600.5	2600.5	2600.5	2600.5	2600.5	2600.5	2600.5	2600.5	2600.5	2600.5
2.5°	2662.6	2677.6	2672.9	2668.2	2668.2	2661.6	2660.7	2651.3	2643.8	2631.5	2628.7
5°	2696.5	2712.5	2710.6	2714.3	2726.6	2729.4	2732.2	2726.6	2711.5	2696.5	2689.9
7.5°	2666.3	2684.2	2689.9	2712.5	2750.1	2784.0	2809.4	2819.8	2805.6	2784.0	2773.6
10°	2564.7	2584.5	2604.2	2657.9	2724.7	2804.7	2872.5	2912.9	2910.1	2889.4	2871.5
12.5°	2358.6	2379.3	2421.6	2526.1	2648.5	2789.6	2915.8	3000.5	3029.6	3014.6	2983.5
15°	2193.9	2211.8	2243.8	2351.1	2510.1	2724.7	2931.8	3096.5	3170.8	3162.3	3124.7
17.5°	2189.2	2196.7	2216.5	2267.3	2389.6	2623.1	2914.8	3190.6	3332.7	3331.8	3284.7
20°	2272.0	2274.8	2286.1	2296.5	2366.1	2545.9	2871.5	3268.7	3514.3	3514.3	3463.5
22.5°	2386.8	2384.9	2396.2	2386.8	2420.7	2539.3	2844.2	3337.4	3716.7	3731.8	3667.8
25°	2559.1	2549.6	2546.8	2525.2	2531.8	2600.5	2874.3	3415.5	3956.7	3987.8	3907.8
27.5°	2788.7	2773.6	2763.3	2713.4	2696.5	2726.6	2966.6	3509.6	4224.0	4277.6	4176.0
30°	3088.0	3060.7	3045.6	2959.1	2897.9	2902.6	3105.9	3634.8	4503.5	4590.1	4461.2
32.5°	3496.5	3454.1	3413.6	3271.5	3159.5	3122.8	3285.6	3808.0	4806.6	4944.9	4779.3
35°	3953.9	3920.0	3876.7	3657.4	3485.2	3400.5	3528.5	4049.9	5161.4	5380.7	5165.2
37.5°	4394.3	4365.2	4385.9	4090.3	3868.2	3744.9	3846.6	4374.6	5599.0	5922.8	5648.9
40°	4849.9	4827.3	4830.1	4547.8	4288.9	4150.6	4232.5	4782.1	6100.7	6567.5	6230.6
42.5°	5344.9	5328.0	5271.5	5021.2	4730.3	4601.4	4676.7	5252.7	6639.0	7301.6	6868.7
45°	5899.3	5888.9	5836.2	5549.2	5216.0	5071.0	5172.7	5772.2	7180.2	7992.5	7509.6
47.5°	6378.3	6386.8	6380.2	6138.3	5792.9	5580.2	5701.6	6314.3	7683.8	8641.9	8124.2
50°	6608.9	6653.2	6718.1	6642.8	6428.2	6211.8	6235.3	6837.6	8163.8	9250.8	8713.4
52.5°	6488.5	6572.2	6749.2	6869.6	6952.5	6907.3	6844.2	7357.2	8615.5	9800.5	9270.6
55°	6039.5	6157.2	6450.8	6741.6	7164.2	7492.7	7575.5	7933.2	9056.0	10284.2	9797.6
57.5°	5221.6	5412.7	5676.2	6264.5	6976.0	7776.0	8428.2	8732.2	9522.8	10800.9	10349.2
60°	3819.3	4075.3	4402.8	5278.1	6317.2	7624.5	9153.9	9959.5	10186.3	11470.1	11067.3
62.5°	2444.2	2602.3	2903.5	3728.0	4922.3	6848.0	9376.0	11493.6	11311.0	12567.5	12144.0
65°	1673.4	1775.1	2050.8	2513.9	3182.1	5097.4	8781.2	12643.7	13097.4	14306.8	13984.9
67.5°	1216.0	1293.2	1528.5	1934.1	2073.4	3016.5	6814.1	12591.0	14833.9	16098.8	15598.1
70°	886.6	941.2	1138.8	1528.5	1595.3	1678.1	4128.0	10703.0	14796.2	16575.0	15975.5
72.5°	656.9	694.6	827.3	1185.9	1291.3	1133.2	2043.3	7778.8	12714.3	14992.0	14511.0
75°	475.3	503.5	601.4	907.3	1033.4	863.1	1019.3	4545.9	8868.7	10545.9	10630.6
77.5°	363.3	384.9	448.9	664.5	827.3	647.5	632.5	2091.3	4205.2	4225.9	4463.1
80°	291.8	305.9	340.7	467.8	634.4	484.7	412.2	844.2	1328.9	1124.7	1180.2
82.5°	214.6	238.1	288.0	328.5	453.6	334.1	251.3	426.4	505.4	434.8	438.6
85°	122.4	138.4	174.1	235.3	289.9	204.2	144.0	189.2	235.3	192.9	172.2
87.5°	43.3	56.5	61.2	92.2	126.1	84.7	55.5	54.6	77.2	57.4	48.0
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°	2600.5	2600.5	2600.5	2600.5	2600.5	2600.5	2600.5	2600.5	2600.5	2600.5	2600.5
2.5°	2619.3	2614.6	2595.8	2570.3	2544.0	2518.6	2510.1	2492.2	2480.0	2473.4	2480.9
5°	2672.0	2656.9	2612.7	2556.2	2496.9	2432.9	2387.8	2346.3	2316.2	2288.0	2299.3
7.5°	2747.3	2720.9	2644.7	2545.9	2440.5	2334.1	2255.1	2194.8	2154.3	2128.0	2133.6
10°	2834.8	2794.3	2677.6	2529.9	2367.1	2214.6	2121.4	2069.6	2044.2	2030.1	2033.9
12.5°	2935.5	2878.1	2711.5	2493.2	2255.1	2080.9	2016.9	2001.9	2002.8	2003.8	2005.6
15°	3059.8	2979.8	2738.8	2413.2	2109.2	1978.3	1967.1	1991.5	2016.9	2029.2	2028.2
17.5°	3200.0	3087.1	2743.5	2281.4	1966.1	1912.5	1948.2	2000.9	2039.5	2056.5	2060.2
20°	3350.6	3196.2	2709.6	2095.1	1848.5	1858.8	1922.8	1990.6	2032.9	2054.6	2060.2
22.5°	3522.8	3312.9	2628.7	1899.3	1752.5	1800.5	1875.8	1941.6	1985.9	2007.5	2013.2
25°	3719.5	3443.8	2501.6	1734.6	1669.6	1734.6	1809.9	1864.5	1900.2	1920.0	1925.6
27.5°	3937.9	3580.2	2332.2	1603.8	1597.2	1666.8	1728.9	1771.3	1790.1	1805.2	1810.8
30°	4157.2	3704.5	2127.1	1504.9	1534.1	1600.0	1644.2	1663.1	1668.7	1671.5	1678.1
32.5°	4394.3	3811.8	1911.5	1423.1	1473.9	1535.1	1561.4	1569.9	1543.5	1525.6	1531.3
35°	4681.4	3926.6	1700.7	1358.1	1414.6	1467.3	1475.8	1468.2	1437.2	1400.5	1402.4
37.5°	5036.2	4069.6	1532.2	1312.0	1359.1	1393.9	1383.5	1381.6	1384.5	1341.2	1344.0
40°	5471.0	4256.0	1408.9	1276.2	1313.9	1321.4	1292.2	1308.2	1322.4	1256.5	1258.4
42.5°	5953.9	4480.9	1330.8	1251.8	1276.2	1258.4	1213.2	1231.1	1229.2	1142.6	1141.6
45°	6446.1	4725.6	1303.5	1233.9	1241.4	1205.6	1155.8	1160.5	1120.9	1042.8	1045.6
47.5°	6935.5	4988.2	1320.5	1218.8	1198.1	1157.6	1119.1	1098.4	1040.0	981.6	981.6
50°	7415.5	5264.0	1382.6	1188.7	1138.8	1115.3	1087.1	1050.4	988.2	938.4	934.6
52.5°	7860.7	5541.6	1452.2	1138.8	1064.5	1078.6	1060.7	1018.4	957.2	906.4	907.3
55°	8282.3	5819.3	1479.5	1070.1	994.8	1046.6	1036.2	958.1	884.7	843.3	839.5
57.5°	8741.6	6153.4	1449.4	982.6	938.4	1009.9	970.4	883.8	841.4	810.4	807.5
60°	9377.9	6677.6	1384.5	874.4	884.7	955.3	887.5	851.8	805.6	770.8	768.9
62.5°	10434.8	7655.5	1280.0	767.1	821.6	874.4	848.0	812.2	765.2	731.3	731.3
65°	11997.2	9014.6	1083.3	683.3	751.1	795.3	805.6	769.9	720.9	685.2	687.1
67.5°	13314.8	9867.3	819.8	613.6	678.6	731.3	760.5	725.6	673.9	639.1	640.0
70°	13242.3	9248.0	625.9	544.9	614.6	668.2	705.9	678.6	623.1	590.1	592.9
72.5°	11761.9	7736.5	506.4	475.3	549.6	602.4	647.5	626.8	570.4	538.4	538.4
75°	8640.9	5491.8	404.7	404.7	468.7	533.6	583.5	570.4	518.6	496.0	489.4
77.5°	3642.3	2304.0	317.2	336.0	389.6	458.4	520.5	525.2	480.0	508.2	461.2
80°	968.5	635.3	241.9	264.5	305.9	378.4	452.7	450.8	401.9	375.5	349.2
82.5°	368.9	250.4	172.2	186.4	221.2	289.9	358.6	369.9	320.9	277.6	277.6
85°	142.1	107.3	106.4	112.0	128.9	192.0	271.1	280.5	241.9	205.2	211.8
87.5°	36.7	32.0	39.5	37.6	59.3	102.6	155.3	160.9	147.8	85.6	122.4
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)