

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: P883237

Luminaire Tested: **NAV-SB3C-727-U-T2**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883237
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-727-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20171 lumens
Efficiency: N/A
Efficacy: 135.3 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

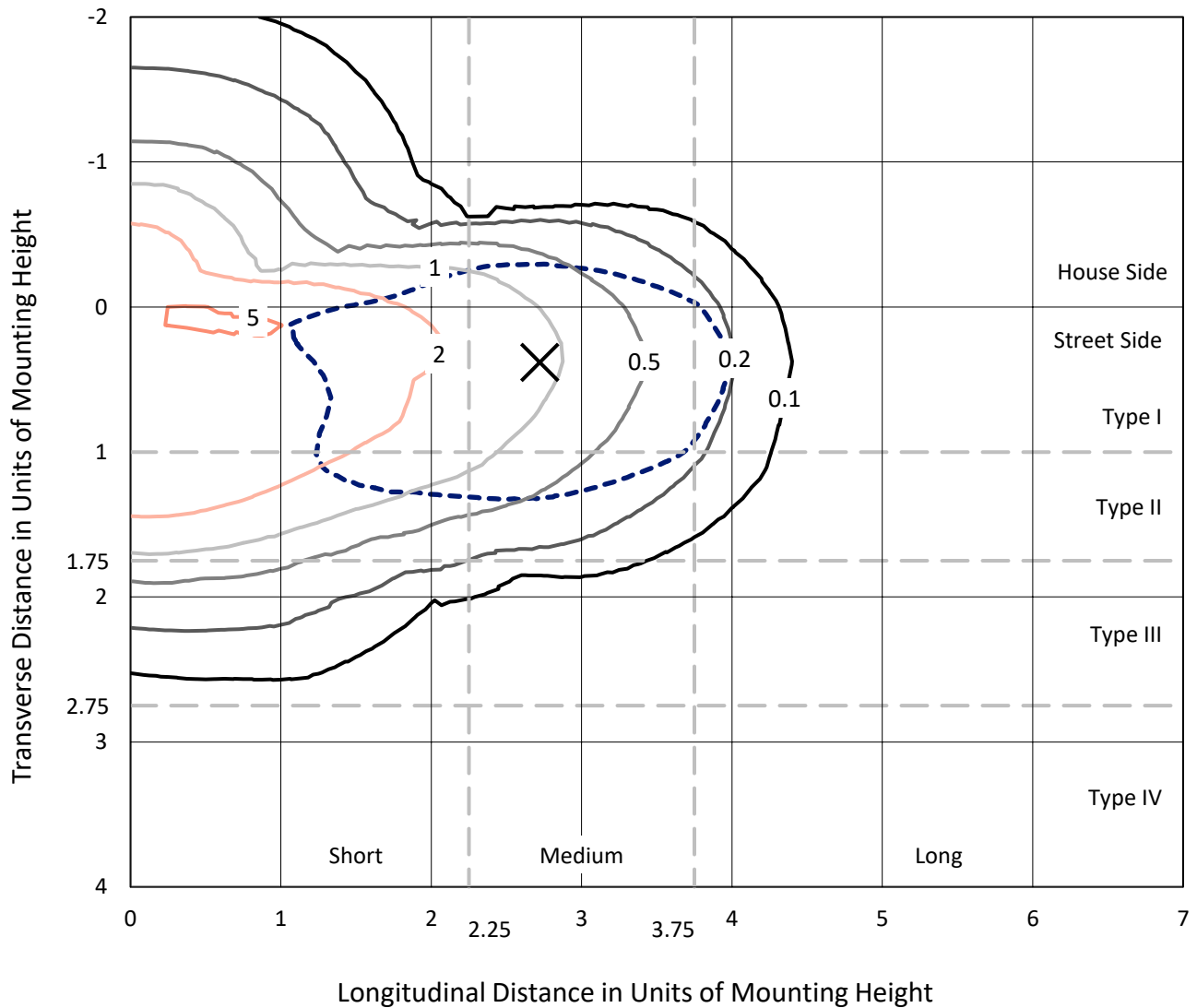
Input Watts (W): 149.1
Input Voltage (V): 120.0
Input Current (Ain): 1.259
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

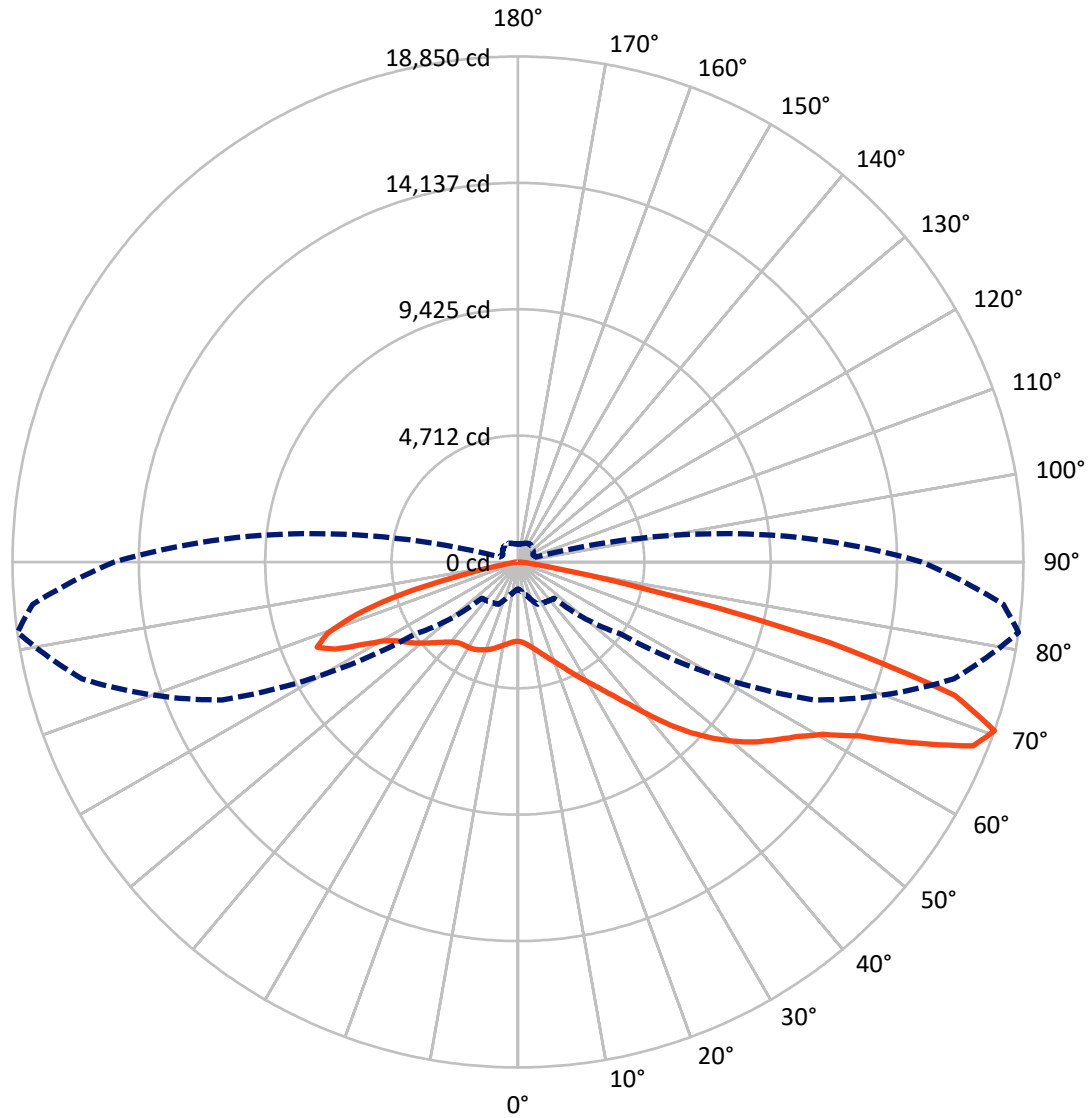
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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	4972.6	0.0	4972.6
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	15198.4	0.0	15198.4
	% Fixture	75.3	0.0	75.3
Total	Lumens	20171.0	0.0	20171.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.2	1.4
10°-20°	802.2	4.0
20°-30°	1342.0	6.7
30°-40°	2096.6	10.4
40°-50°	3339.1	16.6
50°-60°	4646.8	23.0
60°-70°	4860.7	24.1
70°-80°	2540.5	12.6
80°-90°	263.8	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°	20171.0	100.0
0°-180°	20171.0	100.0

Coefficient of Utilization



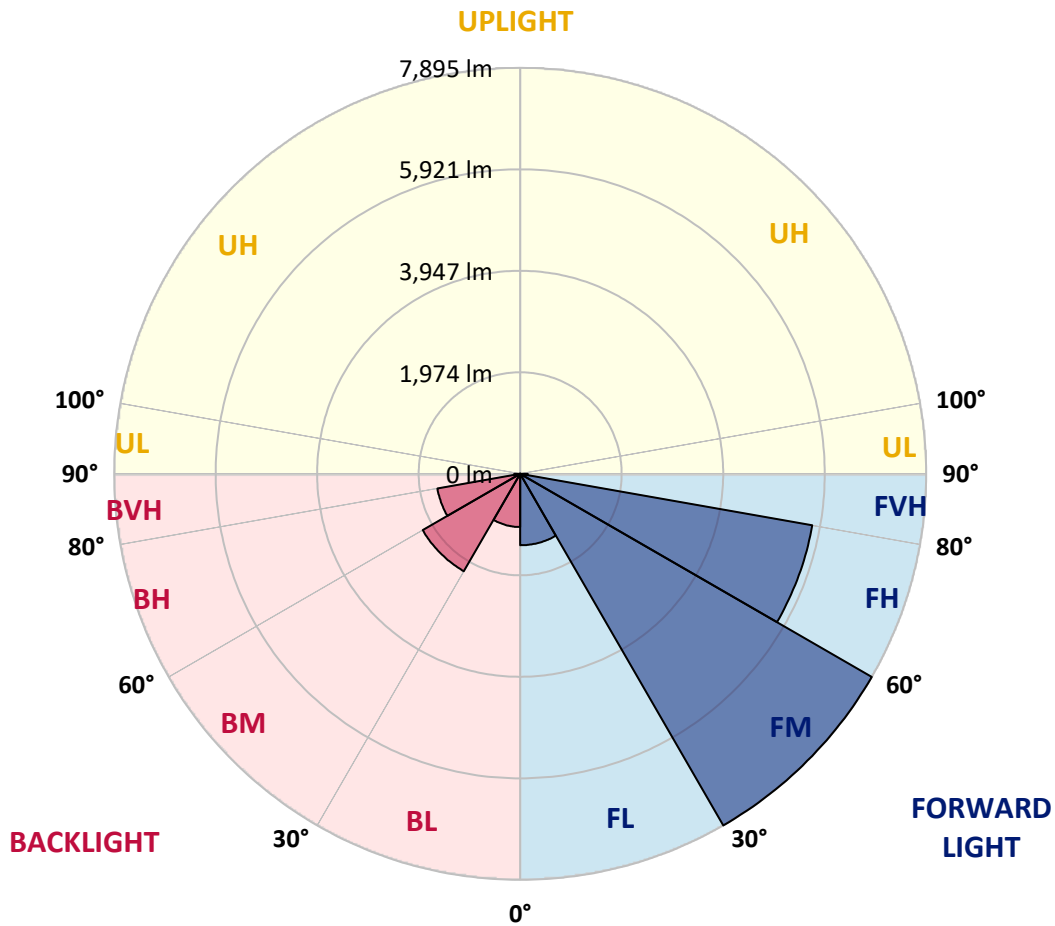
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1389.0	6.9			
FM (30°-60°)	7894.7	39.1			
FH (60°-80°)	5767.0	28.6			G3/7500
FVH (80°-90°)	147.7	0.7			G2/225
BL (0°-30°)	1034.5	5.1	B3/2500		
BM (30°-60°)	2187.8	10.8	B2/2500		
BH (60°-80°)	1634.3	8.1	B3/2500		G3/2500
BVH (80°-90°)	116.1	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°	2957.3	2957.3	2957.3	2957.3	2957.3	2957.3	2957.3	2957.3	2957.3	2957.3	2957.3
2.5°	3028.0	3045.1	3039.7	3034.4	3034.4	3026.9	3025.8	3015.1	3006.6	2992.6	2989.4
5°	3066.5	3084.7	3082.5	3086.8	3100.7	3104.0	3107.2	3100.7	3083.6	3066.5	3059.0
7.5°	3032.2	3052.6	3059.0	3084.7	3127.5	3166.0	3194.9	3206.7	3190.7	3166.0	3154.3
10°	2916.6	2939.1	2961.6	3022.6	3098.6	3189.6	3266.6	3312.7	3309.5	3285.9	3265.6
12.5°	2682.2	2705.8	2754.0	2872.8	3011.9	3172.5	3315.9	3412.2	3445.4	3428.3	3392.9
15°	2494.9	2515.3	2551.7	2673.7	2854.6	3098.6	3334.1	3521.4	3605.9	3596.3	3553.5
17.5°	2489.6	2498.1	2520.6	2578.4	2717.6	2983.0	3314.8	3628.4	3790.0	3789.0	3735.5
20°	2583.8	2587.0	2599.8	2611.6	2690.8	2895.2	3265.6	3717.3	3996.6	3996.6	3938.8
22.5°	2714.4	2712.2	2725.1	2714.4	2752.9	2887.7	3234.5	3795.4	4226.7	4243.9	4171.1
25°	2910.2	2899.5	2896.3	2871.7	2879.2	2957.3	3268.8	3884.2	4499.7	4535.0	4444.0
27.5°	3171.4	3154.3	3142.5	3085.8	3066.5	3100.7	3373.7	3991.3	4803.6	4864.6	4749.1
30°	3511.8	3480.7	3463.6	3365.1	3295.5	3300.9	3532.1	4133.6	5121.5	5220.0	5073.4
32.5°	3976.3	3928.1	3882.1	3720.5	3593.1	3551.4	3736.5	4330.6	5466.2	5623.5	5435.1
35°	4496.5	4457.9	4408.7	4159.3	3963.4	3867.1	4012.7	4605.6	5869.7	6119.1	5874.0
37.5°	4997.4	4964.2	4987.7	4651.7	4399.1	4258.8	4374.4	4974.9	6367.4	6735.6	6424.1
40°	5515.4	5489.7	5492.9	5171.8	4877.5	4720.2	4813.3	5438.3	6937.9	7468.8	7085.6
42.5°	6078.4	6059.1	5994.9	5710.2	5379.5	5232.8	5318.5	5973.5	7550.1	8303.6	7811.3
45°	6708.8	6697.1	6637.1	6310.7	5931.8	5766.9	5882.5	6564.3	8165.5	9089.2	8540.2
47.5°	7253.6	7263.3	7255.8	6980.7	6587.9	6346.0	6484.1	7180.8	8738.2	9827.8	9239.1
50°	7515.9	7566.2	7640.0	7554.4	7310.4	7064.2	7090.9	7775.9	9284.0	10520.3	9909.1
52.5°	7378.9	7474.1	7675.3	7812.3	7906.5	7855.1	7783.4	8366.8	9797.8	11145.3	10542.7
55°	6868.3	7002.1	7336.0	7666.8	8147.3	8520.9	8615.1	9021.8	10298.7	11695.5	11142.1
57.5°	5938.2	6155.5	6455.2	7124.1	7933.3	8843.1	9584.8	9930.5	10829.6	12283.1	11769.3
60°	4343.4	4634.5	5007.0	6002.4	7184.1	8670.7	10410.0	11326.2	11584.2	13044.1	12586.0
62.5°	2779.6	2959.5	3302.0	4239.6	5597.8	7787.7	10662.6	13070.9	12863.2	14292.1	13810.5
65°	1903.0	2018.6	2332.2	2858.9	3618.8	5796.9	9986.2	14378.8	14894.7	16270.1	15904.0
67.5°	1382.9	1470.6	1738.2	2199.5	2357.9	3430.4	7749.2	14318.9	16869.5	18308.0	17738.6
70°	1008.3	1070.3	1295.1	1738.2	1814.2	1908.4	4694.5	12171.8	16826.7	18849.6	18167.8
72.5°	747.1	789.9	940.8	1348.6	1468.5	1288.7	2323.7	8846.3	14459.1	17049.3	16502.3
75°	540.5	572.6	683.9	1031.8	1175.2	981.5	1159.2	5169.7	10085.7	11993.0	12089.4
77.5°	413.1	437.8	510.5	755.7	940.8	736.4	719.3	2378.3	4782.2	4805.8	5075.5
80°	331.8	347.9	387.5	532.0	721.4	551.2	468.8	960.1	1511.3	1279.0	1342.2
82.5°	244.0	270.8	327.5	373.5	515.9	380.0	285.8	484.9	574.8	494.5	498.8
85°	139.1	157.3	198.0	267.6	329.7	232.3	163.8	215.1	267.6	219.4	195.9
87.5°	49.2	64.2	69.6	104.9	143.4	96.3	63.1	62.1	87.8	65.3	54.6
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°	2957.3	2957.3	2957.3	2957.3	2957.3	2957.3	2957.3	2957.3	2957.3	2957.3	2957.3
2.5°	2978.7	2973.4	2952.0	2923.1	2893.1	2864.2	2854.6	2834.2	2820.3	2812.8	2821.4
5°	3038.7	3021.5	2971.2	2907.0	2839.6	2766.8	2715.4	2668.3	2634.1	2602.0	2614.8
7.5°	3124.3	3094.3	3007.6	2895.2	2775.4	2654.4	2564.5	2496.0	2450.0	2420.0	2426.4
10°	3223.8	3177.8	3045.1	2877.0	2691.9	2518.5	2412.5	2353.7	2324.8	2308.7	2313.0
12.5°	3338.4	3273.1	3083.6	2835.3	2564.5	2366.5	2293.7	2276.6	2277.7	2278.7	2280.9
15°	3479.6	3388.7	3114.7	2744.3	2398.6	2249.8	2237.0	2264.8	2293.7	2307.6	2306.6
17.5°	3639.1	3510.7	3120.0	2594.5	2235.9	2174.9	2215.6	2275.5	2319.4	2338.7	2343.0
20°	3810.4	3634.8	3081.5	2382.6	2102.1	2113.9	2186.7	2263.7	2311.9	2336.5	2343.0
22.5°	4006.2	3767.6	2989.4	2159.9	1993.0	2047.5	2133.2	2208.1	2258.4	2283.0	2289.4
25°	4229.9	3916.3	2844.9	1972.6	1898.8	1972.6	2058.2	2120.3	2161.0	2183.5	2189.9
27.5°	4478.3	4071.5	2652.3	1823.8	1816.3	1895.6	1966.2	2014.4	2035.8	2052.9	2059.3
30°	4727.6	4212.8	2418.9	1711.5	1744.6	1819.6	1869.9	1891.3	1897.7	1900.9	1908.4
32.5°	4997.4	4334.8	2173.8	1618.3	1676.1	1745.7	1775.7	1785.3	1755.3	1735.0	1741.4
35°	5323.8	4465.4	1934.1	1544.5	1608.7	1668.6	1678.3	1669.7	1634.4	1592.7	1594.8
37.5°	5727.3	4628.1	1742.5	1492.0	1545.6	1585.2	1573.4	1571.2	1574.5	1525.2	1528.4
40°	6221.8	4840.0	1602.3	1451.4	1494.2	1502.7	1469.6	1487.8	1503.8	1428.9	1431.0
42.5°	6770.9	5095.8	1513.4	1423.5	1451.4	1431.0	1379.7	1400.0	1397.9	1299.4	1298.3
45°	7330.7	5374.1	1482.4	1403.2	1411.8	1371.1	1314.4	1319.7	1274.8	1185.9	1189.1
47.5°	7887.3	5672.7	1501.7	1386.1	1362.5	1316.5	1272.6	1249.1	1182.7	1116.4	1116.4
50°	8433.1	5986.4	1572.3	1351.8	1295.1	1268.3	1236.2	1194.5	1123.8	1067.1	1062.8
52.5°	8939.4	6302.1	1651.5	1295.1	1210.5	1226.6	1206.3	1158.1	1088.5	1030.7	1031.8
55°	9418.9	6617.8	1682.6	1217.0	1131.3	1190.2	1178.4	1089.6	1006.1	959.0	954.7
57.5°	9941.2	6997.8	1648.3	1117.4	1067.1	1148.5	1103.5	1005.0	956.9	921.6	918.3
60°	10664.8	7594.0	1574.5	994.3	1006.1	1086.4	1009.3	968.6	916.2	876.6	874.5
62.5°	11866.7	8706.1	1455.6	872.3	934.4	994.3	964.4	923.7	870.2	831.6	831.6
65°	13643.5	10251.6	1231.9	777.1	854.1	904.4	916.2	875.5	819.9	779.2	781.3
67.5°	15142.0	11221.3	932.3	697.9	771.7	831.6	864.8	825.2	766.4	726.8	727.8
70°	15059.5	10517.1	711.8	619.7	698.9	759.9	802.7	771.7	708.6	671.1	674.3
72.5°	13375.9	8798.1	575.8	540.5	625.1	685.0	736.4	712.8	648.6	612.2	612.2
75°	9826.7	6245.4	460.2	460.2	533.0	606.9	663.6	648.6	589.8	564.1	556.6
77.5°	4142.2	2620.2	360.7	382.1	443.1	521.3	591.9	597.2	545.9	578.0	524.5
80°	1101.4	722.5	275.1	300.8	347.9	430.3	514.8	512.7	457.0	427.1	397.1
82.5°	419.6	284.7	195.9	211.9	251.5	329.7	407.8	420.6	365.0	315.7	315.7
85°	161.6	122.0	120.9	127.4	146.6	218.3	308.3	319.0	275.1	233.3	240.8
87.5°	41.7	36.4	45.0	42.8	67.4	116.7	176.6	183.0	168.0	97.4	139.1
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)