

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: P883247

Luminaire Tested: **NAV-SB3C-730-U-T2**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883247
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-730-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21910 lumens
Efficiency: N/A
Efficacy: 146.9 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

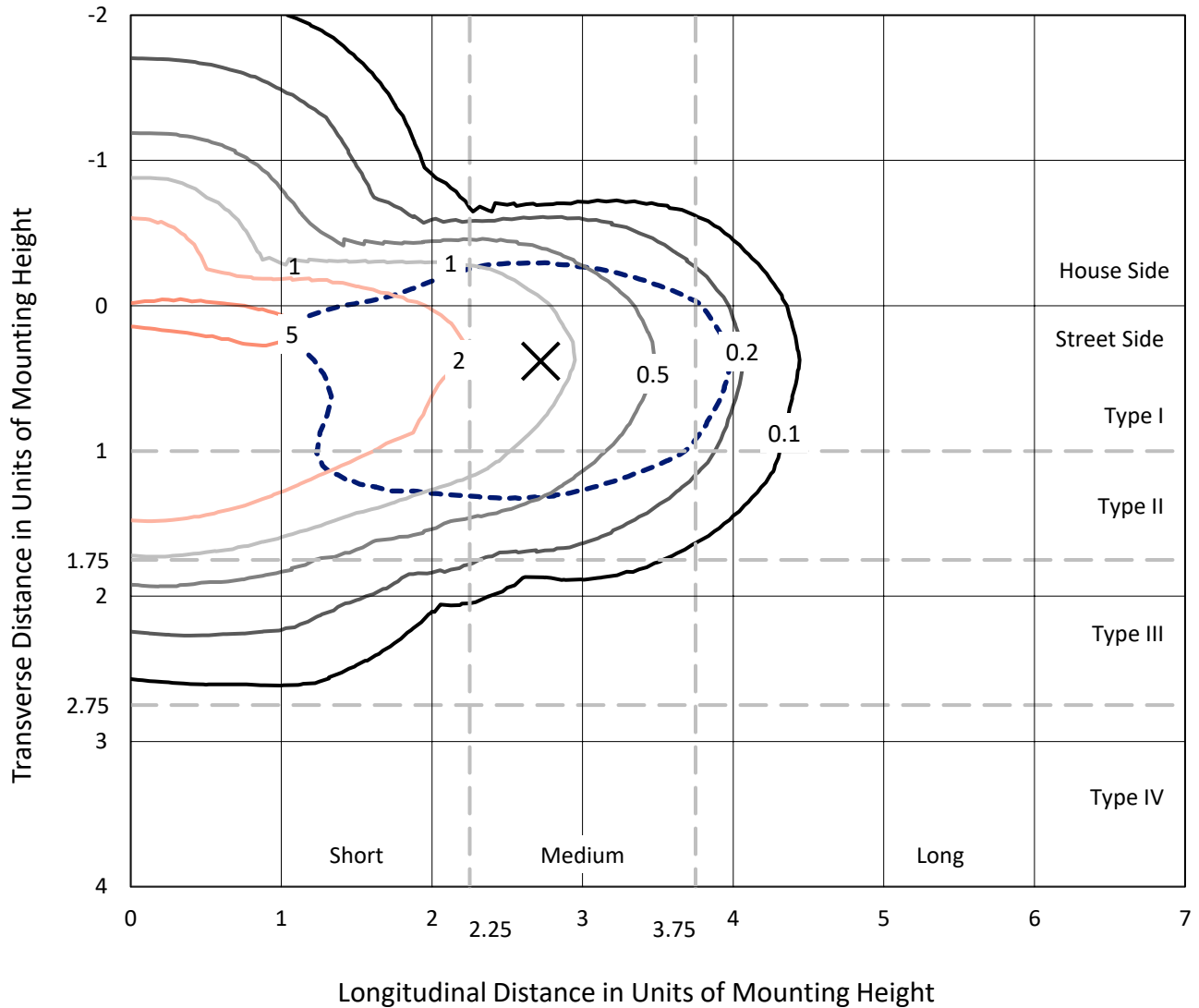
Input Watts (W): 149.1
Input Voltage (V): 120.0
Input Current (Ain): 1.259
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

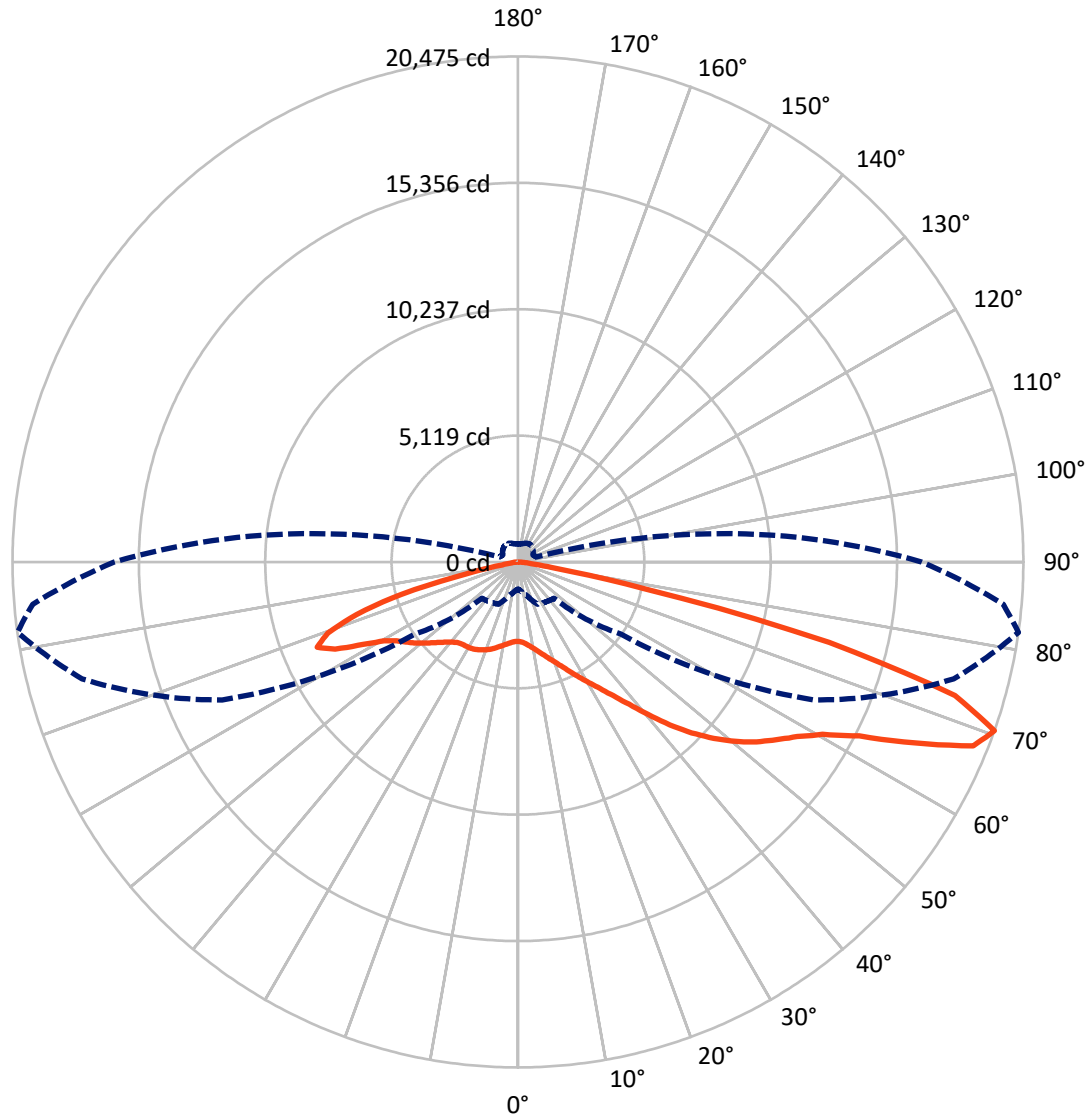
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	5401.4	0.0	5401.4
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	16508.7	0.0	16508.7
	% Fixture	75.3	0.0	75.3
Total	Lumens	21910.0	0.0	21910.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.3	1.4
10°-20°	871.4	4.0
20°-30°	1457.7	6.7
30°-40°	2277.4	10.4
40°-50°	3627.0	16.6
50°-60°	5047.4	23.0
60°-70°	5279.8	24.1
70°-80°	2759.5	12.6
80°-90°	286.5	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°	21910.0	100.0
0°-180°	21910.0	100.0

Coefficient of Utilization



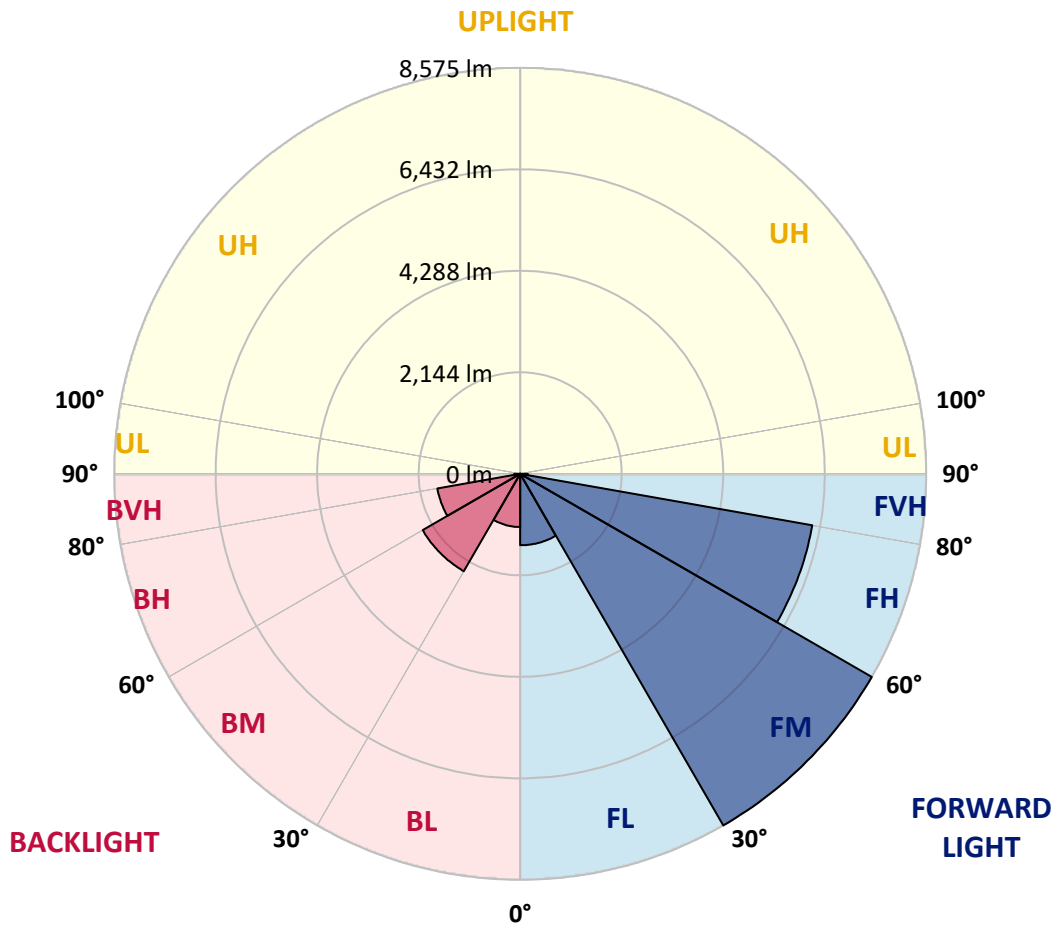
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1508.7	6.9			
FM (30°-60°)	8575.4	39.1			
FH (60°-80°)	6264.1	28.6			G3/7500
FVH (80°-90°)	160.4	0.7			G2/225
BL (0°-30°)	1123.7	5.1	B3/2500		
BM (30°-60°)	2376.4	10.8	B2/2500		
BH (60°-80°)	1775.2	8.1	B3/2500		G3/2500
BVH (80°-90°)	126.1	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°	3212.3	3212.3	3212.3	3212.3	3212.3	3212.3	3212.3	3212.3	3212.3	3212.3	3212.3
2.5°	3289.0	3307.6	3301.8	3296.0	3296.0	3287.8	3286.7	3275.1	3265.8	3250.6	3247.2
5°	3330.9	3350.6	3348.3	3353.0	3368.1	3371.6	3375.0	3368.1	3349.5	3330.9	3322.7
7.5°	3293.7	3315.8	3322.7	3350.6	3397.1	3439.0	3470.4	3483.2	3465.7	3439.0	3426.2
10°	3168.1	3192.5	3216.9	3283.2	3365.7	3464.6	3548.3	3598.3	3594.8	3569.2	3547.1
12.5°	2913.5	2939.1	2991.4	3120.4	3271.6	3446.0	3601.8	3706.4	3742.4	3723.8	3685.5
15°	2710.0	2732.1	2771.7	2904.2	3100.7	3365.7	3621.5	3825.0	3916.8	3906.4	3859.9
17.5°	2704.2	2713.5	2737.9	2800.7	2951.9	3240.2	3600.6	3941.2	4116.8	4115.6	4057.5
20°	2806.5	2810.0	2824.0	2836.8	2922.8	3144.8	3547.1	4037.7	4341.2	4341.2	4278.4
22.5°	2948.4	2946.0	2960.0	2948.4	2990.2	3136.7	3513.4	4122.6	4591.1	4609.7	4530.7
25°	3161.1	3149.5	3146.0	3119.3	3127.4	3212.3	3550.6	4219.1	4887.6	4926.0	4827.1
27.5°	3444.8	3426.2	3413.4	3351.8	3330.9	3368.1	3664.5	4335.4	5217.8	5284.0	5158.5
30°	3814.5	3780.8	3762.2	3655.2	3579.7	3585.5	3836.6	4490.0	5563.1	5670.0	5510.8
32.5°	4319.1	4266.8	4216.8	4041.2	3902.9	3857.5	4058.7	4703.9	5937.4	6108.3	5903.7
35°	4884.1	4842.3	4788.8	4517.9	4305.1	4200.5	4358.6	5002.7	6375.7	6646.6	6380.4
37.5°	5428.2	5392.2	5417.7	5052.7	4778.3	4626.0	4751.6	5403.8	6916.3	7316.3	6978.0
40°	5990.9	5963.0	5966.5	5617.7	5298.0	5127.1	5228.2	5907.2	7536.0	8112.7	7696.5
42.5°	6602.4	6581.5	6511.8	6202.5	5843.3	5684.0	5777.0	6488.5	8201.0	9019.5	8484.7
45°	7287.2	7274.4	7209.3	6854.7	6443.2	6264.1	6389.7	7130.3	8869.5	9872.8	9276.4
47.5°	7879.0	7889.4	7881.3	7582.5	7155.8	6893.1	7043.1	7799.9	9491.5	10675.0	10035.6
50°	8163.8	8218.5	8298.7	8205.7	7940.6	7673.2	7702.3	8446.3	10084.4	11427.3	10763.4
52.5°	8015.0	8118.5	8337.0	8485.9	8588.2	8532.4	8454.5	9088.1	10642.5	12106.2	11451.7
55°	7460.4	7605.8	7968.5	8327.7	8849.8	9255.5	9357.8	9799.6	11186.6	12703.8	12102.7
57.5°	6450.1	6686.1	7011.7	7738.3	8617.2	9605.4	10411.1	10786.7	11763.2	13342.1	12784.0
60°	4717.9	5034.1	5438.7	6519.9	7803.4	9418.3	11307.5	12302.7	12582.9	14168.7	13671.1
62.5°	3019.3	3214.6	3586.6	4605.1	6080.4	8459.1	11581.9	14197.7	13972.2	15524.3	15001.1
65°	2067.1	2192.7	2533.3	3105.3	3930.8	6296.7	10847.1	15618.4	16178.8	17672.8	17275.2
67.5°	1502.1	1597.4	1888.1	2389.2	2561.2	3726.2	8417.3	15553.3	18323.8	19886.4	19267.9
70°	1095.2	1162.6	1406.8	1888.1	1970.6	2072.9	5099.2	13221.2	18277.3	20474.7	19734.1
72.5°	811.5	858.0	1021.9	1464.9	1595.1	1399.8	2524.0	9608.9	15705.6	18519.1	17925.1
75°	587.1	622.0	742.9	1120.8	1276.5	1066.1	1259.1	5615.4	10955.2	13027.0	13131.6
77.5°	448.8	475.5	554.6	820.8	1021.9	799.9	781.3	2583.3	5194.5	5220.1	5513.1
80°	360.4	377.8	420.9	577.8	783.6	598.7	509.2	1042.9	1641.6	1389.3	1457.9
82.5°	265.1	294.1	355.8	405.7	560.4	412.7	310.4	526.7	624.3	537.1	541.8
85°	151.1	170.9	215.1	290.7	358.1	252.3	177.9	233.7	290.7	238.3	212.8
87.5°	53.5	69.8	75.6	113.9	155.8	104.6	68.6	67.4	95.3	70.9	59.3
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°	3212.3	3212.3	3212.3	3212.3	3212.3	3212.3	3212.3	3212.3	3212.3	3212.3	3212.3
2.5°	3235.5	3229.7	3206.5	3175.1	3142.5	3111.1	3100.7	3078.6	3063.5	3055.3	3064.6
5°	3300.6	3282.0	3227.4	3157.6	3084.4	3005.3	2949.5	2898.4	2861.2	2826.3	2840.2
7.5°	3393.6	3361.1	3266.9	3144.8	3014.6	2883.3	2785.6	2711.2	2661.2	2628.7	2635.6
10°	3501.8	3451.8	3307.6	3125.1	2924.0	2735.6	2620.5	2556.6	2525.2	2507.7	2512.4
12.5°	3626.2	3555.2	3349.5	3079.7	2785.6	2570.5	2491.5	2472.9	2474.0	2475.2	2477.5
15°	3779.6	3680.8	3383.2	2980.9	2605.4	2443.8	2429.8	2460.1	2491.5	2506.6	2505.4
17.5°	3952.9	3813.3	3389.0	2818.2	2428.7	2362.4	2406.6	2471.7	2519.4	2540.3	2544.9
20°	4138.9	3948.2	3347.1	2588.0	2283.4	2296.1	2375.2	2458.9	2511.2	2538.0	2544.9
22.5°	4351.6	4092.4	3247.2	2346.1	2164.8	2224.1	2317.1	2398.5	2453.1	2479.8	2486.8
25°	4594.6	4254.0	3090.2	2142.7	2062.5	2142.7	2235.7	2303.1	2347.3	2371.7	2378.7
27.5°	4864.3	4422.6	2880.9	1981.1	1972.9	2059.0	2135.7	2188.0	2211.3	2229.9	2236.9
30°	5135.2	4576.0	2627.5	1859.0	1895.0	1976.4	2031.1	2054.3	2061.3	2064.8	2072.9
32.5°	5428.2	4708.6	2361.3	1757.9	1820.6	1896.2	1928.8	1939.2	1906.7	1884.6	1891.6
35°	5782.8	4850.4	2100.8	1677.6	1747.4	1812.5	1823.0	1813.7	1775.3	1730.0	1732.3
37.5°	6221.1	5027.1	1892.7	1620.7	1678.8	1721.8	1709.0	1706.7	1710.2	1656.7	1660.2
40°	6758.2	5257.3	1740.4	1576.5	1623.0	1632.3	1596.3	1616.0	1633.5	1552.1	1554.4
42.5°	7354.6	5535.2	1643.9	1546.3	1576.5	1554.4	1498.6	1520.7	1518.4	1411.4	1410.2
45°	7962.7	5837.4	1610.2	1524.2	1533.5	1489.3	1427.7	1433.5	1384.7	1288.2	1291.7
47.5°	8567.2	6161.8	1631.1	1505.6	1480.0	1430.0	1382.3	1356.8	1284.7	1212.6	1212.6
50°	9160.2	6502.5	1707.9	1468.4	1406.8	1377.7	1342.8	1297.5	1220.7	1159.1	1154.5
52.5°	9710.1	6845.4	1793.9	1406.8	1314.9	1332.3	1310.3	1257.9	1182.4	1119.6	1120.8
55°	10230.9	7188.4	1827.6	1321.9	1228.9	1292.8	1280.0	1183.5	1092.8	1041.7	1037.0
57.5°	10798.3	7601.1	1790.4	1213.8	1159.1	1247.5	1198.6	1091.7	1039.4	1001.0	997.5
60°	11584.2	8248.7	1710.2	1080.1	1092.8	1180.0	1096.3	1052.2	995.2	952.2	949.8
62.5°	12889.8	9456.6	1581.1	947.5	1015.0	1080.1	1047.5	1003.3	945.2	903.3	903.3
65°	14819.7	11135.4	1338.2	844.1	927.8	982.4	995.2	951.0	890.6	846.4	848.7
67.5°	16447.4	12188.8	1012.6	758.0	838.2	903.3	939.4	896.4	832.4	789.4	790.6
70°	16357.9	11423.8	773.1	673.1	759.2	825.5	872.0	838.2	769.6	729.0	732.4
72.5°	14529.1	9556.6	625.5	587.1	679.0	744.1	799.9	774.3	704.5	665.0	665.0
75°	10673.9	6783.8	499.9	499.9	579.0	659.2	720.8	704.5	640.6	612.7	604.6
77.5°	4499.3	2846.1	391.8	415.1	481.3	566.2	642.9	648.7	592.9	627.8	569.7
80°	1196.3	784.8	298.8	326.7	377.8	467.4	559.2	556.9	496.4	463.9	431.3
82.5°	455.7	309.3	212.8	230.2	273.2	358.1	443.0	456.9	396.4	343.0	343.0
85°	175.6	132.5	131.4	138.4	159.3	237.2	334.8	346.5	298.8	253.4	261.6
87.5°	45.3	39.5	48.8	46.5	73.2	126.7	191.8	198.8	182.5	105.8	151.1
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)