

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: P883077

Luminaire Tested: **NAV-SB3B-730-U-T2**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883077
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-SB3B-730-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16474 lumens
Efficiency: N/A
Efficacy: 150.9 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

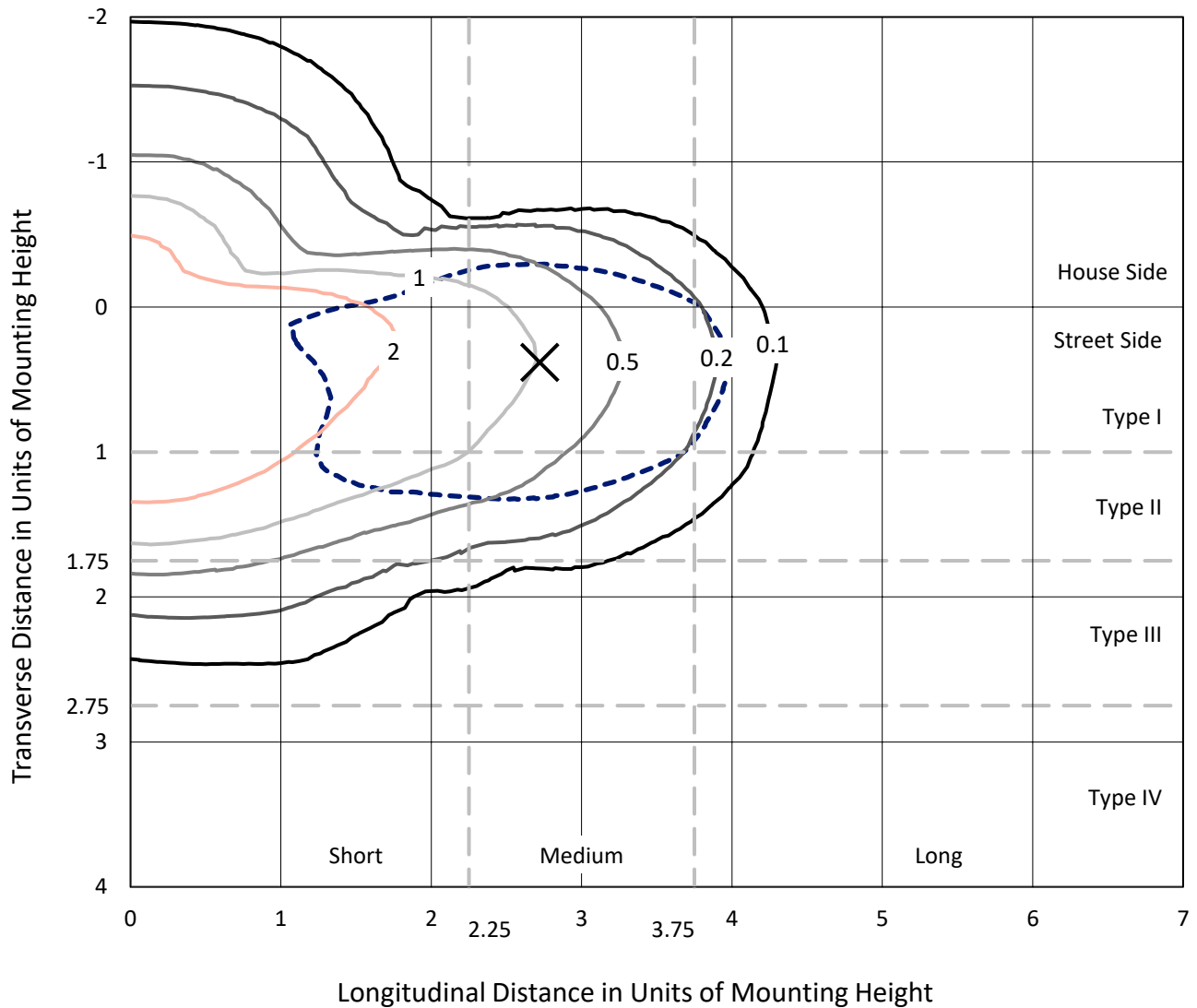
Input Watts (W): 109.2
Input Voltage (V): 120.0
Input Current (Ain): 0.919
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

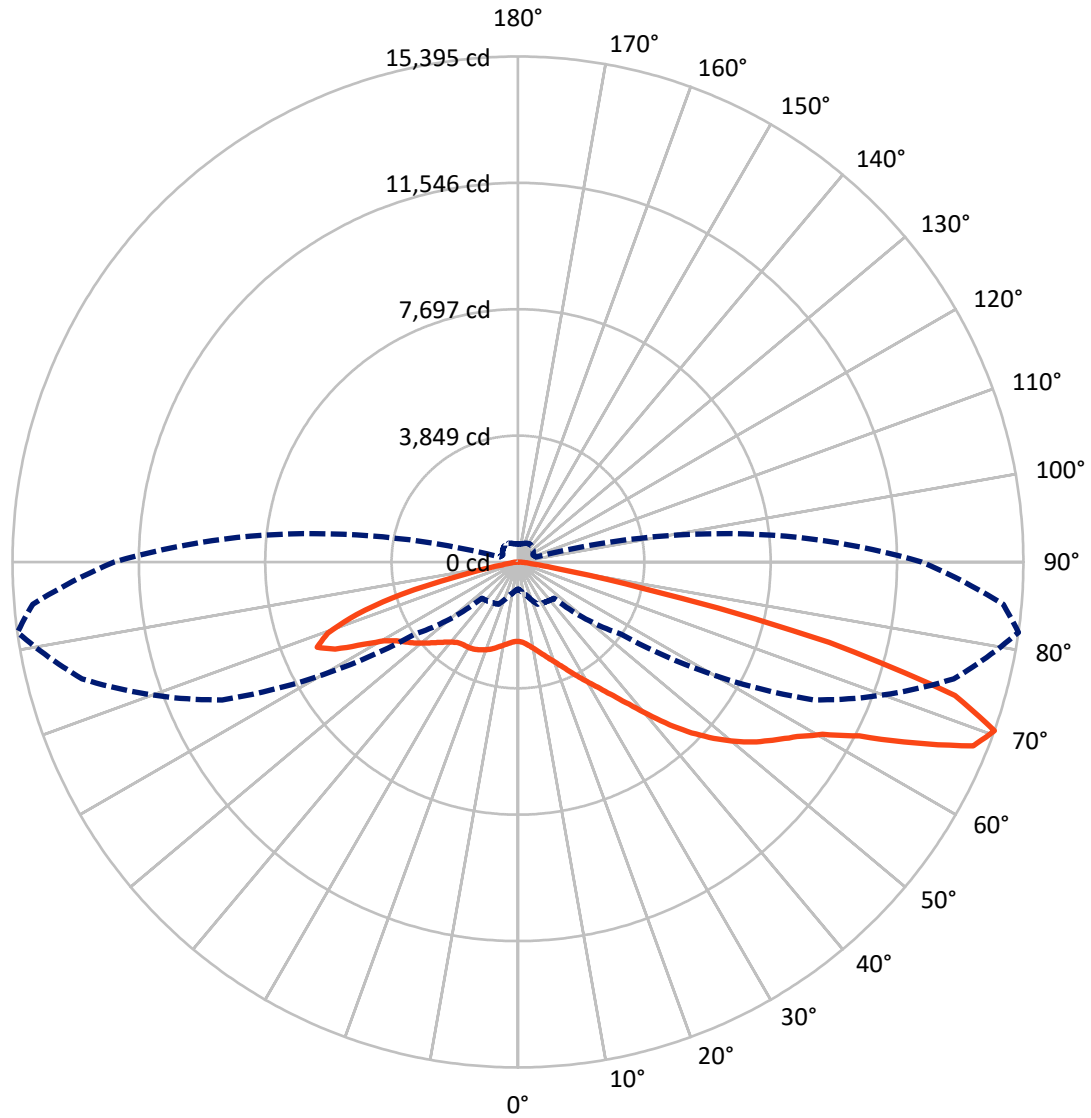
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Medium - N/A

REPORT NUMBER: P883077
CATALOG NUMBER: NAV-SB3B-730-U-T2

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	4061.2	0.0	4061.2
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	12412.8	0.0	12412.8
	% Fixture	75.3	0.0	75.3
Total	Lumens	16474.0	0.0	16474.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.0	1.4
10°-20°	655.2	4.0
20°-30°	1096.1	6.7
30°-40°	1712.3	10.4
40°-50°	2727.1	16.6
50°-60°	3795.1	23.0
60°-70°	3969.8	24.1
70°-80°	2074.9	12.6
80°-90°	215.5	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°	16474.0	100.0
0°-180°	16474.0	100.0

Coefficient of Utilization



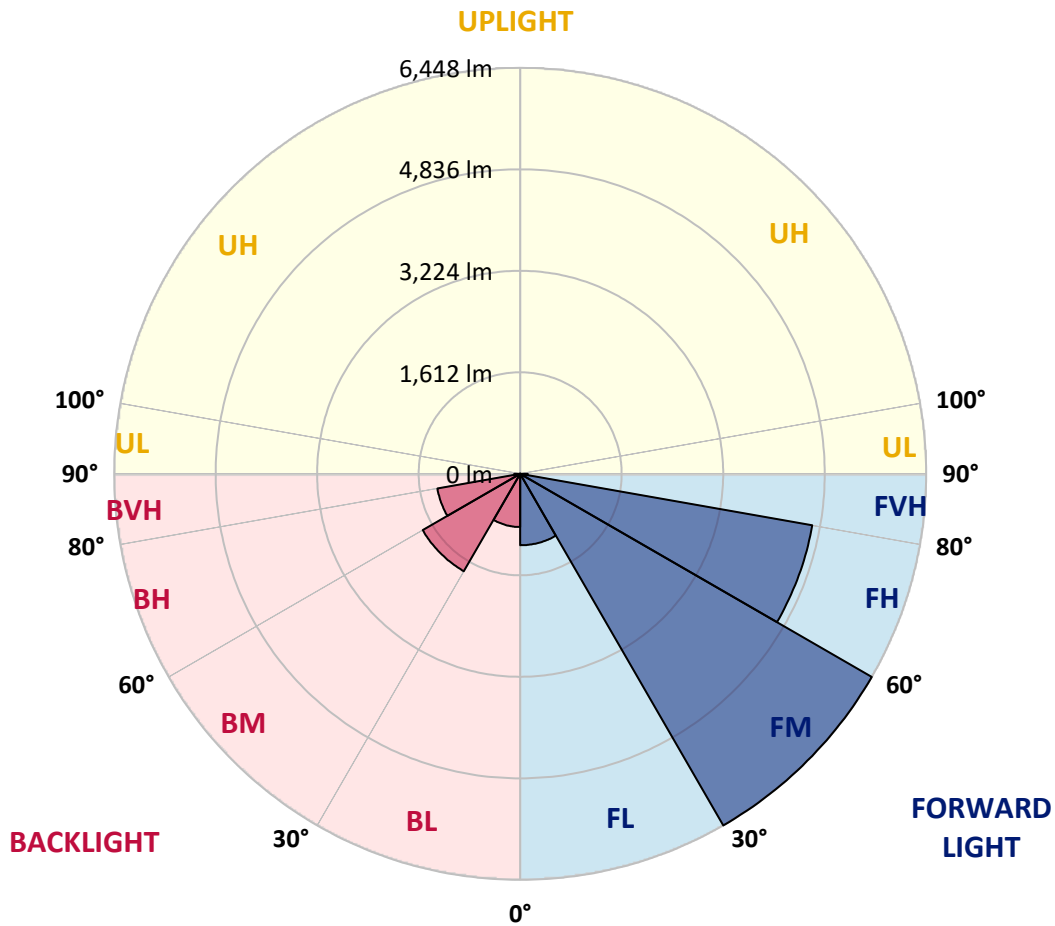
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1134.4	6.9			
FM (30°-60°)	6447.8	39.1			
FH (60°-80°)	4710.0	28.6			G2/5000
FVH (80°-90°)	120.6	0.7			G2/225
BL (0°-30°)	844.9	5.1	B2/1000		
BM (30°-60°)	1786.8	10.8	B2/2500		
BH (60°-80°)	1334.7	8.1	B3/2500		G3/2500
BVH (80°-90°)	94.8	0.6			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



REPORT NUMBER: P883077
 CATALOG NUMBER: NAV-SB3B-730-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2415.3	2415.3	2415.3	2415.3	2415.3	2415.3	2415.3	2415.3	2415.3	2415.3	2415.3
2.5°	2473.0	2487.0	2482.6	2478.2	2478.2	2472.1	2471.2	2462.5	2455.5	2444.1	2441.5
5°	2504.5	2519.3	2517.6	2521.1	2532.4	2535.1	2537.7	2532.4	2518.4	2504.5	2498.3
7.5°	2476.5	2493.1	2498.3	2519.3	2554.3	2585.8	2609.4	2619.0	2605.9	2585.8	2576.1
10°	2382.1	2400.4	2418.8	2468.6	2530.7	2605.0	2667.9	2705.5	2702.9	2683.7	2667.1
12.5°	2190.6	2209.9	2249.2	2346.2	2459.9	2591.0	2708.1	2786.8	2813.9	2799.9	2771.1
15°	2037.7	2054.3	2084.0	2183.6	2331.4	2530.7	2723.0	2876.0	2945.0	2937.2	2902.2
17.5°	2033.3	2040.3	2058.6	2105.8	2219.5	2436.3	2707.3	2963.4	3095.4	3094.5	3050.8
20°	2110.2	2112.8	2123.3	2132.9	2197.6	2364.6	2667.1	3035.9	3264.1	3264.1	3216.9
22.5°	2216.9	2215.1	2225.6	2216.9	2248.3	2358.5	2641.7	3099.8	3452.0	3466.0	3406.6
25°	2376.8	2368.1	2365.5	2345.4	2351.5	2415.3	2669.7	3172.3	3675.0	3703.8	3629.5
27.5°	2590.1	2576.1	2566.5	2520.2	2504.5	2532.4	2755.3	3259.7	3923.2	3973.0	3878.6
30°	2868.1	2842.8	2828.8	2748.3	2691.5	2695.9	2884.7	3376.0	4182.8	4263.3	4143.5
32.5°	3247.5	3208.2	3170.6	3038.6	2934.5	2900.5	3051.7	3536.8	4464.3	4592.8	4439.0
35°	3672.3	3640.9	3600.7	3397.0	3237.0	3158.3	3277.2	3761.5	4793.9	4997.6	4797.4
37.5°	4081.4	4054.3	4073.6	3799.1	3592.8	3478.3	3572.7	4063.1	5200.4	5501.1	5246.7
40°	4504.5	4483.5	4486.2	4223.9	3983.5	3855.0	3931.1	4441.6	5666.3	6099.9	5786.9
42.5°	4964.3	4948.6	4896.2	4663.6	4393.5	4273.8	4343.7	4878.7	6166.3	6781.7	6379.6
45°	5479.2	5469.6	5420.6	5154.0	4844.6	4710.0	4804.4	5361.2	6668.9	7423.3	6974.9
47.5°	5924.2	5932.0	5925.9	5701.2	5380.4	5182.9	5295.6	5864.7	7136.6	8026.5	7545.7
50°	6138.3	6179.4	6239.7	6169.8	5970.5	5769.4	5791.3	6350.7	7582.4	8592.1	8092.9
52.5°	6026.4	6104.2	6268.6	6380.5	6457.4	6415.4	6356.9	6833.3	8002.0	9102.6	8610.4
55°	5609.5	5718.7	5991.5	6261.6	6654.1	6959.2	7036.1	7368.3	8411.1	9551.9	9100.0
57.5°	4849.8	5027.3	5272.0	5818.4	6479.2	7222.3	7828.1	8110.4	8844.7	10031.8	9612.2
60°	3547.3	3785.1	4089.3	4902.3	5867.3	7081.5	8502.0	9250.3	9461.0	10653.3	10279.2
62.5°	2270.2	2417.0	2696.8	3462.5	4571.8	6360.4	8708.3	10675.2	10505.6	11672.6	11279.2
65°	1554.3	1648.7	1904.8	2334.9	2955.5	4734.4	8155.9	11743.4	12164.8	13288.1	12989.1
67.5°	1129.4	1201.1	1419.6	1796.4	1925.8	2801.7	6328.9	11694.5	13777.6	14952.4	14487.4
70°	823.5	874.2	1057.7	1419.6	1481.7	1558.6	3834.1	9940.9	13742.6	15394.8	14837.9
72.5°	610.2	645.1	768.4	1101.4	1199.3	1052.5	1897.8	7224.9	11809.0	13924.4	13477.7
75°	441.4	467.7	558.6	842.7	959.8	801.6	946.7	4222.2	8237.2	9794.9	9873.6
77.5°	337.4	357.5	417.0	617.2	768.4	601.4	587.4	1942.4	3905.7	3925.0	4145.3
80°	271.0	284.1	316.4	434.5	589.2	450.2	382.9	784.1	1234.3	1044.6	1096.2
82.5°	199.3	221.2	267.5	305.1	421.3	310.3	233.4	396.0	469.4	403.9	407.4
85°	113.6	128.5	161.7	218.5	269.2	189.7	133.7	175.7	218.5	179.2	160.0
87.5°	40.2	52.4	56.8	85.7	117.1	78.7	51.6	50.7	71.7	53.3	44.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P883077
 CATALOG NUMBER: NAV-SB3B-730-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2415.3	2415.3	2415.3	2415.3	2415.3	2415.3	2415.3	2415.3	2415.3	2415.3	2415.3
2.5°	2432.8	2428.4	2410.9	2387.3	2362.8	2339.2	2331.4	2314.8	2303.4	2297.3	2304.3
5°	2481.7	2467.7	2426.7	2374.2	2319.1	2259.7	2217.7	2179.3	2151.3	2125.1	2135.6
7.5°	2551.7	2527.2	2456.4	2364.6	2266.7	2167.9	2094.5	2038.5	2000.9	1976.5	1981.7
10°	2633.0	2595.4	2487.0	2349.7	2198.5	2056.9	1970.3	1922.3	1898.7	1885.6	1889.1
12.5°	2726.5	2673.2	2518.4	2315.6	2094.5	1932.8	1873.3	1859.3	1860.2	1861.1	1862.8
15°	2841.9	2767.6	2543.8	2241.3	1959.0	1837.5	1827.0	1849.7	1873.3	1884.7	1883.8
17.5°	2972.1	2867.2	2548.2	2119.0	1826.1	1776.3	1809.5	1858.5	1894.3	1910.0	1913.5
20°	3112.0	2968.6	2516.7	1945.9	1716.8	1726.5	1785.9	1848.8	1888.2	1908.3	1913.5
22.5°	3272.0	3077.0	2441.5	1764.0	1627.7	1672.3	1742.2	1803.4	1844.5	1864.6	1869.8
25°	3454.7	3198.5	2323.5	1611.1	1550.8	1611.1	1681.0	1731.7	1764.9	1783.3	1788.5
27.5°	3657.5	3325.3	2166.2	1489.6	1483.4	1548.1	1605.8	1645.2	1662.6	1676.6	1681.9
30°	3861.1	3440.7	1975.6	1397.8	1424.9	1486.1	1527.2	1544.6	1549.9	1552.5	1558.6
32.5°	4081.4	3540.3	1775.4	1321.7	1368.9	1425.7	1450.2	1458.1	1433.6	1417.0	1422.3
35°	4348.1	3647.0	1579.6	1261.4	1313.9	1362.8	1370.7	1363.7	1334.8	1300.7	1302.5
37.5°	4677.6	3779.9	1423.1	1218.6	1262.3	1294.6	1285.0	1283.3	1285.9	1245.7	1248.3
40°	5081.5	3952.9	1308.6	1185.4	1220.3	1227.3	1200.2	1215.1	1228.2	1167.0	1168.7
42.5°	5529.9	4161.9	1236.1	1162.6	1185.4	1168.7	1126.8	1143.4	1141.6	1061.2	1060.4
45°	5987.1	4389.1	1210.7	1146.0	1153.0	1119.8	1073.5	1077.8	1041.1	968.6	971.2
47.5°	6441.7	4633.0	1226.4	1132.0	1112.8	1075.2	1039.4	1020.1	965.9	911.7	911.7
50°	6887.5	4889.2	1284.1	1104.1	1057.7	1035.9	1009.7	975.6	917.9	871.5	868.0
52.5°	7301.0	5147.0	1348.8	1057.7	988.7	1001.8	985.2	945.8	889.0	841.8	842.7
55°	7692.6	5404.9	1374.2	993.9	924.0	972.1	962.4	889.9	821.7	783.2	779.7
57.5°	8119.2	5715.2	1346.2	912.6	871.5	938.0	901.3	820.8	781.5	752.6	750.0
60°	8710.1	6202.1	1285.9	812.1	821.7	887.3	824.3	791.1	748.3	715.9	714.2
62.5°	9691.8	7110.4	1188.9	712.4	763.1	812.1	787.6	754.4	710.7	679.2	679.2
65°	11142.9	8372.7	1006.2	634.6	697.6	738.7	748.3	715.1	669.6	636.4	638.1
67.5°	12366.7	9164.7	761.4	570.0	630.3	679.2	706.3	674.0	625.9	593.6	594.4
70°	12299.4	8589.5	581.3	506.1	570.8	620.7	655.6	630.3	578.7	548.1	550.7
72.5°	10924.3	7185.6	470.3	441.4	510.5	559.5	601.4	582.2	529.7	500.0	500.0
75°	8025.6	5100.7	375.9	375.9	435.3	495.6	542.0	529.7	481.7	460.7	454.6
77.5°	3383.0	2139.9	294.6	312.1	361.9	425.7	483.4	487.8	445.8	472.0	428.3
80°	899.5	590.1	224.7	245.6	284.1	351.4	420.5	418.7	373.3	348.8	324.3
82.5°	342.7	232.5	160.0	173.1	205.4	269.2	333.1	343.5	298.1	257.9	257.9
85°	132.0	99.7	98.8	104.0	119.8	178.3	251.8	260.5	224.7	190.6	196.7
87.5°	34.1	29.7	36.7	35.0	55.1	95.3	144.2	149.5	137.2	79.5	113.6
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)