

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: P964001

Luminaire Tested: **NAV-SB3B-730-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964001
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3B-730-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16924.8 lumens
Efficiency: N/A
Efficacy: 155.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

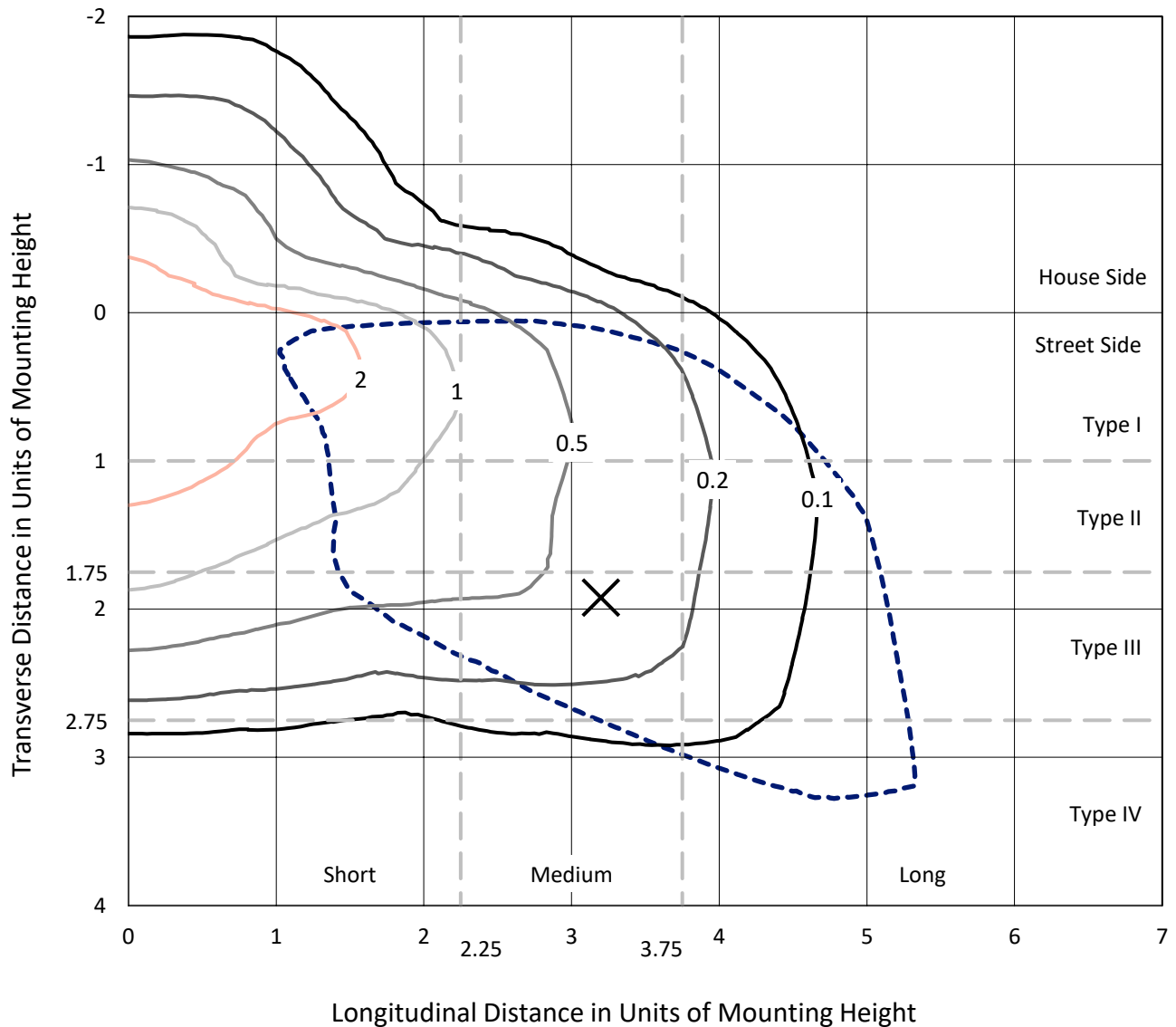
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

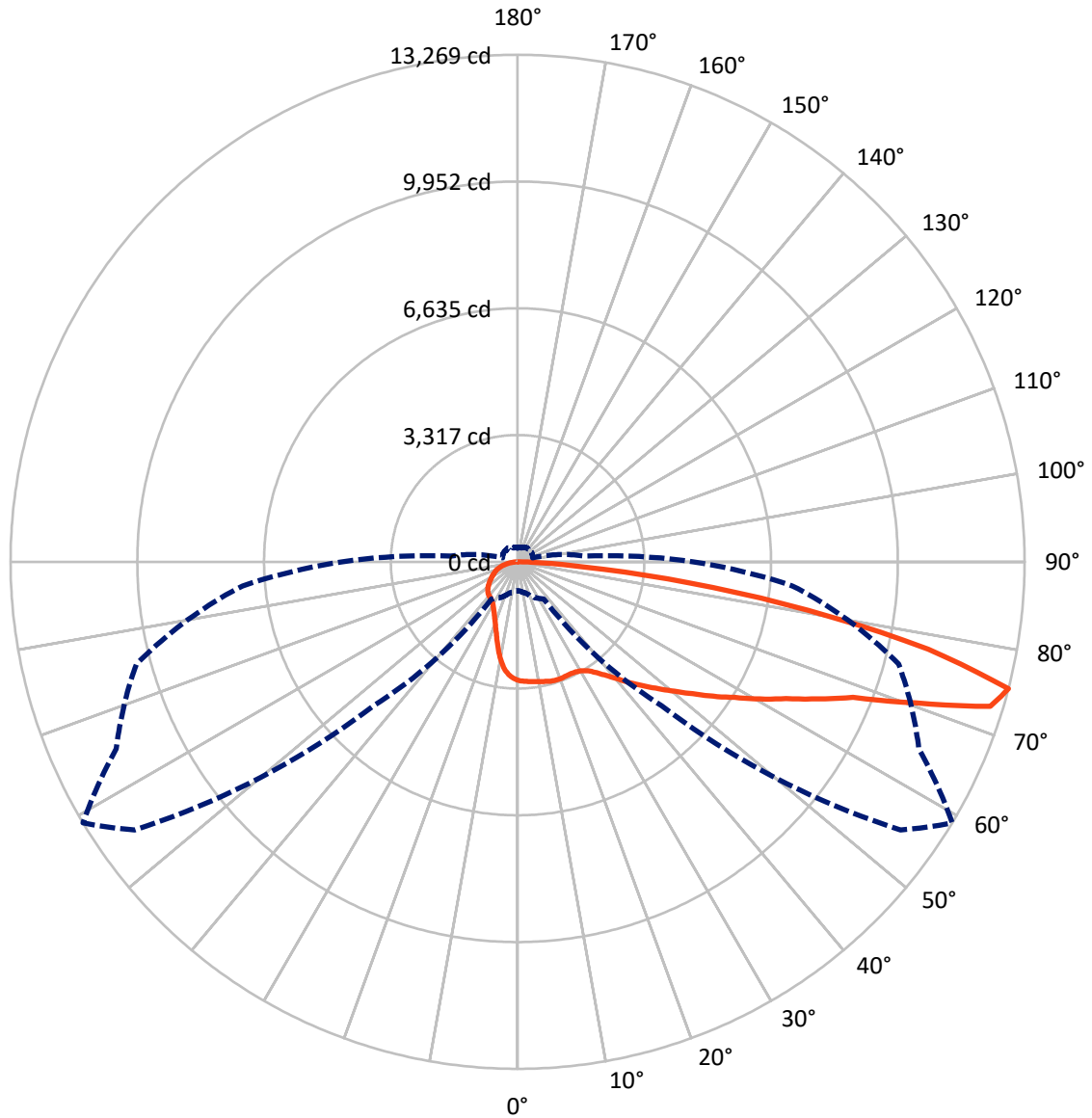
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3174.4	0.0	3174.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	13750.4	0.0	13750.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	16924.8	0.0	16924.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.5	1.6
10°-20°	712.0	4.2
20°-30°	1081.5	6.4
30°-40°	1607.5	9.5
40°-50°	2390.7	14.1
50°-60°	3245.1	19.2
60°-70°	3961.7	23.4
70°-80°	3109.1	18.4
80°-90°	538.6	3.2
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°	16924.8	100.0
0°-180°	16924.8	100.0

Coefficient of Utilization

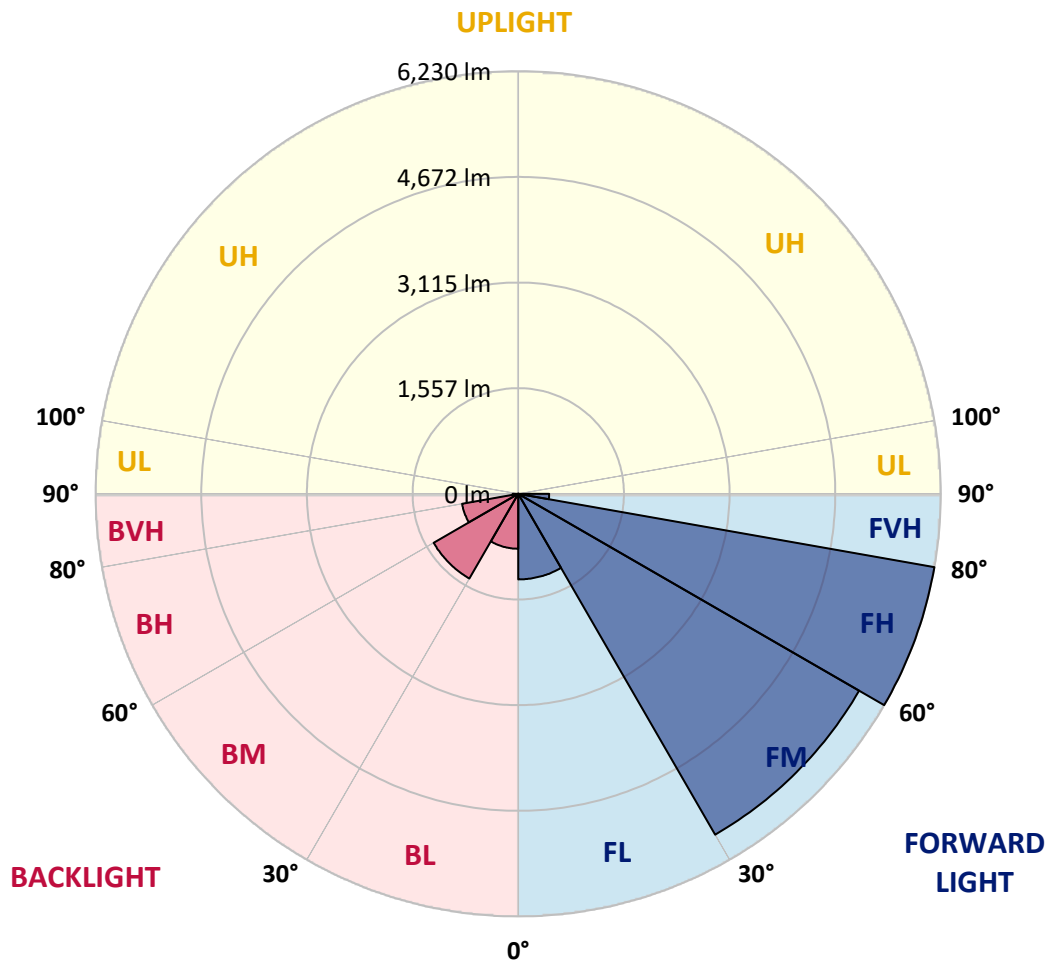


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1261.9	7.5			
FM (30°-60°)	5802.5	34.3			
FH (60°-80°)	6229.8	36.8			G3/7500
FVH (80°-90°)	456.1	2.7			G3/500
BL (0°-30°)	810.1	4.8	B2/1000		
BM (30°-60°)	1440.8	8.5	B2/2500		
BH (60°-80°)	841.0	5.0	B2/1000		G2/1000
BVH (80°-90°)	82.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3106.5	3106.5	3106.5	3106.5	3106.5	3106.5	3106.5	3106.5	3106.5	3106.5	3106.5
2.5°	3132.9	3121.9	3132.9	3128.4	3126.6	3122.9	3123.8	3130.1	3126.6	3131.1	3115.6
5°	3112.0	3105.6	3116.5	3113.7	3125.6	3127.5	3139.3	3146.5	3151.2	3152.1	3140.2
7.5°	3077.4	3071.0	3086.5	3099.2	3124.7	3132.0	3156.6	3168.4	3174.8	3185.7	3168.4
10°	2950.8	2948.1	2986.3	3034.6	3094.7	3132.0	3169.3	3189.4	3199.3	3228.5	3208.5
12.5°	2726.8	2730.5	2780.5	2873.4	2993.6	3113.7	3183.9	3213.1	3228.5	3264.9	3255.8
15°	2512.9	2512.0	2566.6	2665.8	2834.3	3033.7	3191.1	3241.3	3267.7	3321.4	3314.1
17.5°	2389.1	2385.4	2423.6	2499.3	2655.9	2910.8	3173.0	3256.7	3313.2	3380.6	3374.2
20°	2366.3	2359.0	2379.0	2416.3	2527.4	2776.0	3125.6	3256.7	3349.6	3437.0	3433.3
22.5°	2449.1	2437.3	2429.1	2424.5	2473.7	2664.9	3071.9	3245.8	3403.3	3518.0	3511.6
25°	2615.8	2597.6	2555.6	2514.7	2500.2	2614.9	3024.6	3243.1	3483.5	3627.3	3603.6
27.5°	2885.3	2862.5	2777.9	2679.5	2591.2	2640.4	3003.7	3259.5	3571.7	3742.9	3695.5
30°	3219.4	3194.8	3088.3	2937.1	2778.8	2735.0	3030.0	3307.7	3684.7	3896.7	3803.9
32.5°	3518.9	3491.7	3400.5	3246.7	3032.8	2898.9	3113.7	3399.7	3862.2	4110.8	3966.9
35°	3784.8	3752.9	3671.0	3529.0	3344.2	3129.2	3264.9	3562.7	4114.3	4458.5	4188.2
37.5°	4045.2	4007.9	3918.7	3768.4	3639.2	3436.1	3473.4	3772.1	4449.4	4881.0	4481.3
40°	4336.6	4282.9	4174.5	4026.1	3900.4	3795.8	3747.5	4028.8	4789.9	5352.7	4847.3
42.5°	4618.8	4567.8	4438.6	4312.0	4154.4	4124.4	4065.3	4329.3	5162.3	5870.7	5218.8
45°	4922.9	4861.9	4705.3	4545.1	4445.8	4342.9	4373.0	4629.7	5527.4	6398.8	5608.5
47.5°	5207.8	5139.6	4954.7	4776.3	4721.7	4526.8	4655.2	4960.2	5907.1	6934.1	5994.5
50°	5361.8	5294.3	5140.5	4979.3	4936.5	4753.5	4961.1	5323.5	6305.0	7467.6	6365.0
52.5°	5490.1	5417.2	5216.0	5126.8	5114.1	5000.3	5338.1	5738.7	6702.9	7939.2	6722.9
55°	5626.6	5545.7	5288.9	5208.7	5267.1	5277.1	5785.1	6209.3	7123.4	8399.1	7060.7
57.5°	5784.2	5681.3	5359.0	5277.9	5416.4	5601.2	6298.6	6697.4	7536.8	8825.1	7361.1
60°	5932.6	5828.8	5493.8	5388.1	5577.5	5977.2	6887.7	7288.3	8004.8	9204.8	7645.2
62.5°	5961.7	5876.1	5601.2	5600.3	5796.1	6416.1	7585.1	7884.6	8413.6	9580.0	7900.1
65°	5457.3	5403.6	5240.6	5592.1	6109.2	7047.9	8361.7	8647.6	8933.5	9907.6	8124.0
67.5°	4153.5	4160.8	4149.0	4827.3	5856.1	7955.6	9486.2	9464.3	9575.3	10275.5	8381.7
70°	1899.2	1942.1	2220.7	3332.3	4691.6	8060.4	11345.3	11062.2	10381.1	10751.7	8604.8
72.5°	1026.1	1058.8	1172.7	1614.3	2820.6	7166.3	12734.7	12935.9	11452.7	11072.2	8359.9
75°	753.0	771.2	850.3	1026.1	1184.5	5326.2	12236.7	13269.1	11586.6	10324.7	7219.1
77.5°	563.5	571.7	636.4	813.0	606.4	2807.9	9777.5	10989.3	9918.6	8482.8	5332.6
80°	408.8	417.9	466.2	610.0	425.2	1027.0	6713.7	7713.4	6793.0	5407.3	2657.6
82.5°	282.3	285.9	306.8	415.1	296.8	398.8	3809.4	4523.2	3792.1	1897.4	717.4
85°	170.3	174.8	183.9	242.2	168.4	189.4	1644.3	1700.8	1133.5	453.5	223.0
87.5°	70.1	74.6	81.9	102.0	66.4	52.8	271.3	340.5	212.2	132.9	69.2
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°	3106.5	3106.5	3106.5	3106.5	3106.5	3106.5	3106.5	3106.5	3106.5	3106.5	3106.5
2.5°	3111.1	3104.7	3087.4	3063.7	3041.9	3014.5	3002.7	2992.7	2983.6	2966.2	2958.1
5°	3130.1	3112.9	3066.5	3006.3	2938.1	2863.4	2790.6	2740.5	2697.7	2665.8	2639.5
7.5°	3159.4	3126.6	3041.9	2919.0	2762.4	2602.1	2457.3	2354.4	2277.0	2248.8	2199.6
10°	3189.4	3150.2	3002.7	2786.1	2515.7	2268.8	2076.8	1971.2	1909.3	1889.2	1858.2
12.5°	3224.9	3167.6	2941.7	2601.2	2239.7	1969.3	1801.8	1739.9	1708.1	1697.1	1699.9
15°	3276.7	3182.1	2849.8	2369.9	1976.6	1750.8	1642.5	1599.7	1583.3	1582.4	1586.0
17.5°	3315.9	3184.8	2706.8	2122.3	1774.5	1618.8	1529.6	1513.2	1524.1	1540.5	1546.9
20°	3359.6	3160.2	2519.2	1896.5	1632.4	1503.2	1465.9	1476.8	1503.2	1526.8	1535.0
22.5°	3390.6	3115.6	2292.5	1720.8	1509.5	1436.7	1434.9	1457.7	1472.2	1484.1	1490.5
25°	3417.9	3040.0	2052.2	1573.3	1408.5	1396.7	1416.7	1409.4	1399.4	1409.4	1415.7
27.5°	3438.0	2920.7	1837.3	1444.0	1337.5	1369.3	1357.5	1341.1	1340.2	1345.6	1354.7
30°	3431.5	2761.5	1660.7	1321.1	1287.4	1318.4	1290.2	1287.4	1284.6	1287.4	1297.4
32.5°	3431.5	2580.2	1525.0	1236.5	1255.5	1243.7	1241.0	1234.6	1223.6	1222.7	1234.6
35°	3450.7	2399.1	1408.5	1190.8	1229.2	1200.9	1202.7	1187.3	1164.5	1153.5	1164.5
37.5°	3489.8	2253.4	1292.8	1169.0	1182.6	1181.8	1174.5	1148.1	1108.0	1073.5	1085.3
40°	3584.5	2210.6	1213.6	1159.1	1160.8	1171.8	1152.6	1101.7	1010.6	954.2	961.4
42.5°	3732.9	2282.6	1196.4	1134.5	1146.3	1157.2	1119.9	1001.5	936.8	903.2	903.2
45°	3921.3	2408.1	1233.7	1098.9	1111.7	1130.8	1019.8	963.3	934.2	935.0	939.6
47.5°	4160.0	2540.2	1302.9	1067.9	1061.6	1072.6	953.2	918.7	878.6	888.6	914.1
50°	4435.8	2674.0	1368.5	1026.1	1006.0	970.6	910.5	877.7	826.7	803.0	809.4
52.5°	4734.4	2803.4	1394.8	975.1	946.0	905.0	881.3	841.3	779.3	740.3	739.3
55°	5017.6	2920.7	1365.7	914.1	885.9	854.0	850.3	825.8	759.3	704.7	704.7
57.5°	5285.2	3019.1	1292.8	852.2	824.9	805.8	830.4	818.5	734.7	664.6	661.0
60°	5511.9	3086.5	1187.3	789.4	770.3	760.2	797.6	794.0	700.2	621.9	619.1
62.5°	5692.2	3112.9	1070.7	729.3	724.8	706.5	752.0	752.0	656.4	579.9	577.3
65°	5833.4	3087.4	952.3	670.1	679.2	651.9	696.5	691.1	610.0	542.6	538.9
67.5°	5958.1	3003.7	821.2	611.8	632.7	598.2	638.3	625.5	559.0	505.3	501.6
70°	6013.7	2808.8	671.9	553.6	579.0	545.4	579.9	556.3	501.6	465.2	458.0
72.5°	5567.5	2334.4	529.0	492.5	514.4	487.1	517.1	489.8	439.7	423.3	409.7
75°	4606.0	1751.7	407.0	426.1	442.5	421.6	441.6	421.6	376.1	387.9	354.1
77.5°	3345.1	1182.6	311.4	356.0	363.3	352.4	369.6	346.9	306.0	303.2	289.6
80°	1663.4	692.9	244.1	281.4	278.6	271.3	291.3	280.4	245.8	260.3	257.7
82.5°	481.6	296.8	177.5	197.6	192.1	193.9	208.5	213.9	320.5	317.8	325.0
85°	151.2	116.5	106.5	110.2	104.7	107.4	122.9	244.1	225.8	132.0	143.0
87.5°	39.2	40.1	26.4	28.2	29.1	34.6	39.2	148.4	71.0	46.4	49.2
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)