

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: P884930

Luminaire Tested: **NAV-SB6A-722-U-T4FT-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884930
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-722-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16427 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

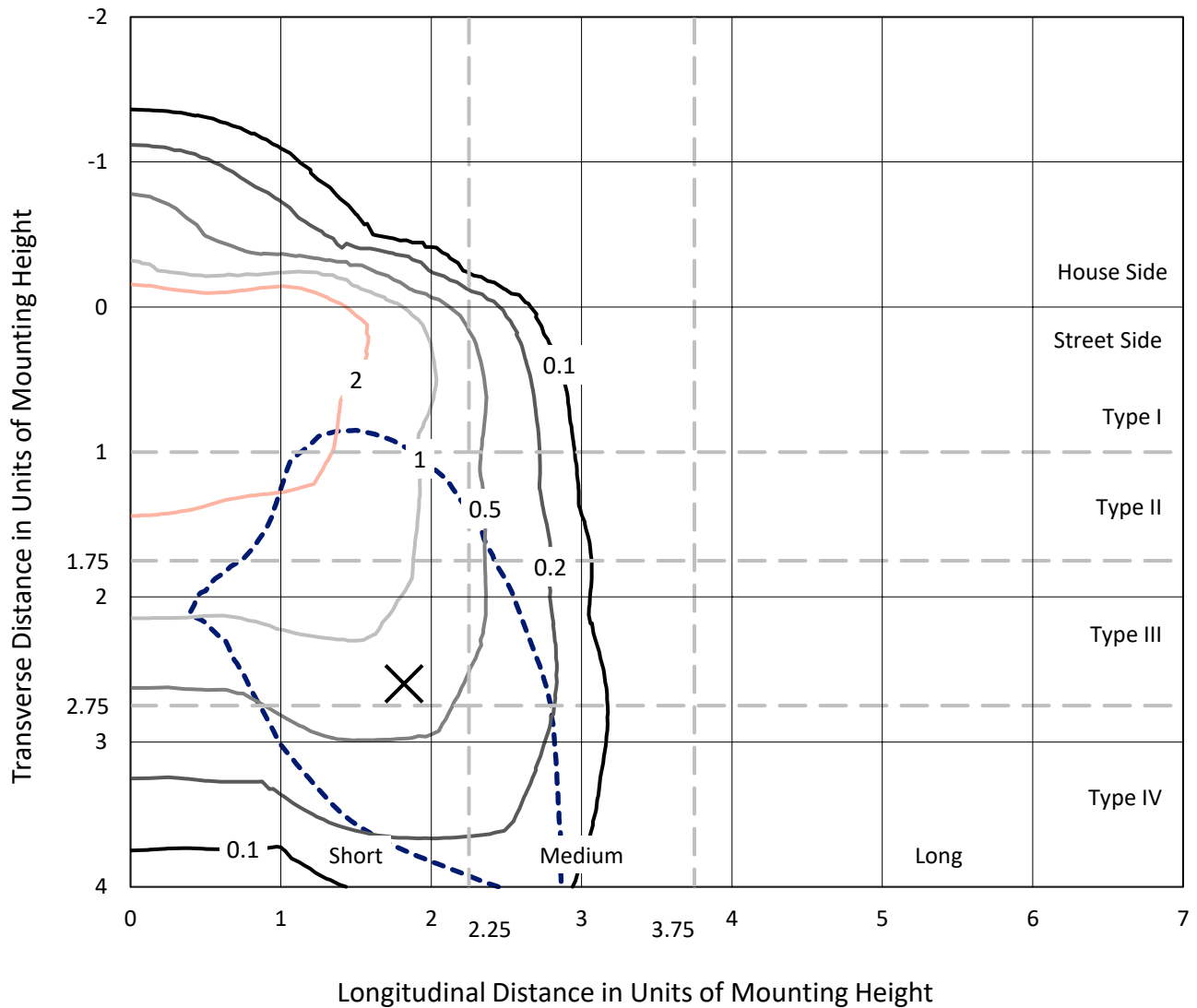
Input Watts (W): 170.9
Input Voltage (V): 120.0
Input Current (Ain): 1.434
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

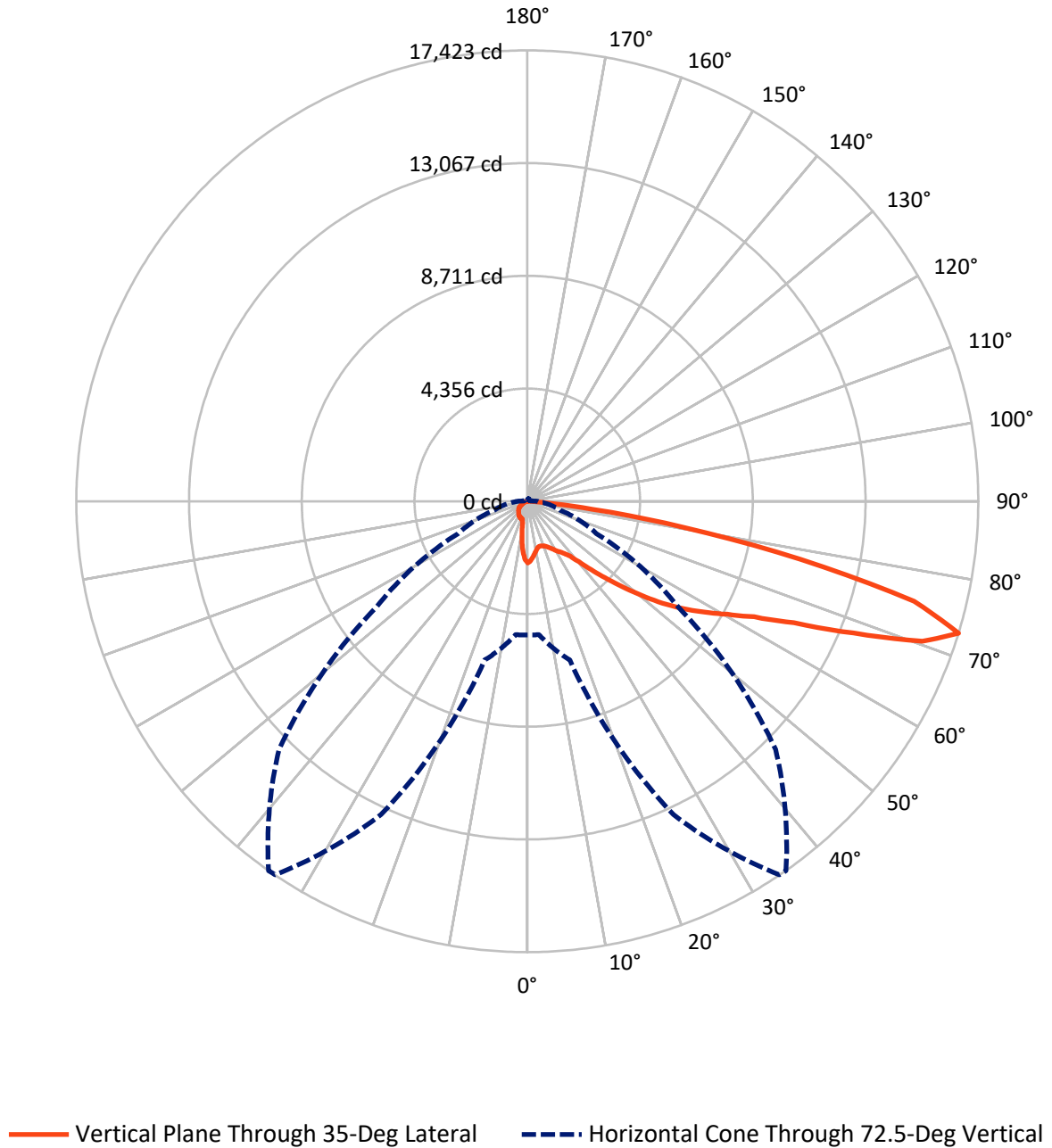
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1848.8	0.0	1848.8
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	14578.2	0.0	14578.2
	% Fixture	88.7	0.0	88.7
Total	Lumens	16427.0	0.0	16427.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.6	1.2
10°-20°	457.7	2.8
20°-30°	743.5	4.5
30°-40°	1240.5	7.6
40°-50°	2347.1	14.3
50°-60°	3729.5	22.7
60°-70°	4613.6	28.1
70°-80°	2867.8	17.5
80°-90°	231.8	1.4
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°	16427.0	100.0
0°-180°	16427.0	100.0

Coefficient of Utilization



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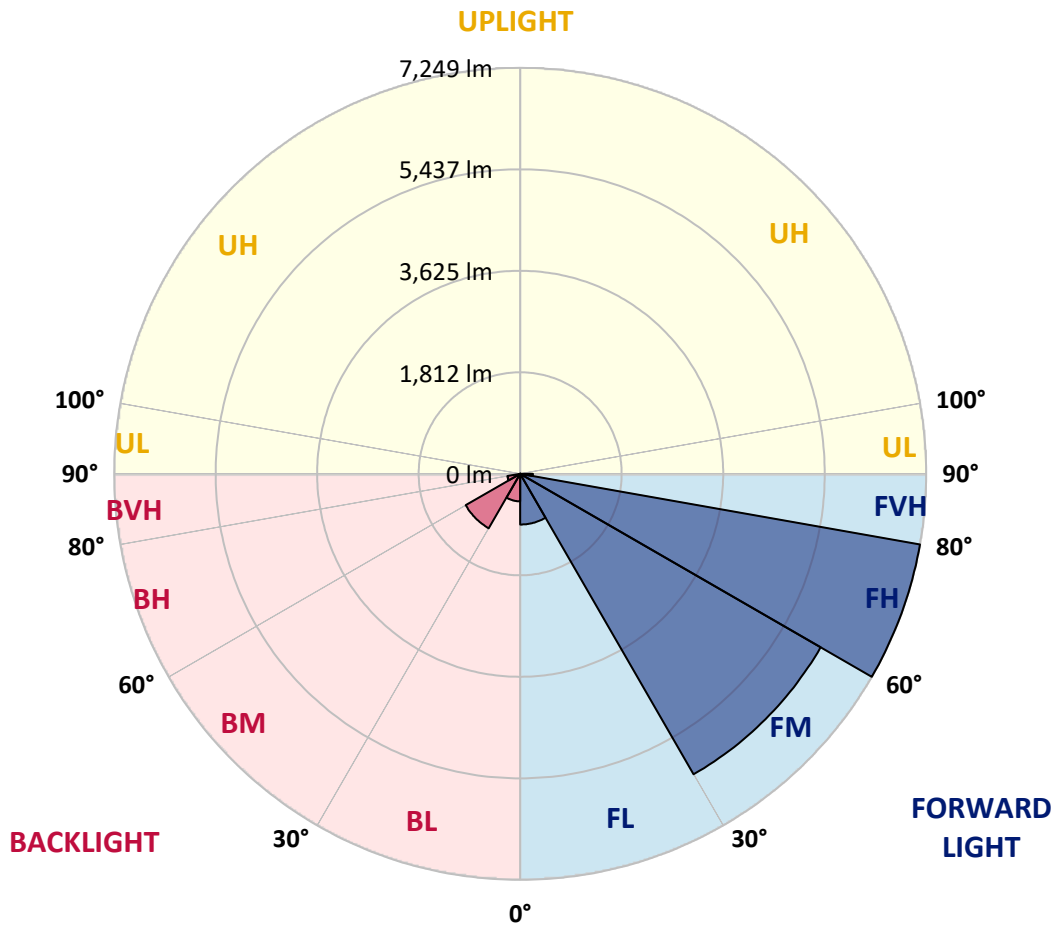
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	905.5	5.5			
FM (30°-60°)	6194.6	37.7			
FH (60°-80°)	7249.4	44.1			G3/7500
FVH (80°-90°)	228.6	1.4			G3/500
BL (0°-30°)	491.3	3.0	B1/500		
BM (30°-60°)	1122.4	6.8	B2/2500		
BH (60°-80°)	232.0	1.4	B1/500		G1/500
BVH (80°-90°)	3.2	0.0			G0/10
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2380.8	2380.8	2380.8	2380.8	2380.8	2380.8	2380.8	2380.8	2380.8	2380.8	2380.8
2.5°	2274.9	2294.2	2297.8	2303.8	2303.8	2311.0	2323.0	2339.9	2367.6	2382.0	2391.7
5°	2096.8	2111.2	2129.3	2143.7	2171.4	2175.0	2221.9	2267.7	2331.5	2379.6	2413.3
7.5°	1917.4	1934.3	1958.3	1993.2	2029.4	2040.2	2111.2	2188.2	2289.3	2379.6	2436.2
10°	1791.0	1792.2	1813.9	1848.8	1906.6	1919.8	2006.5	2116.0	2242.4	2365.2	2457.9
12.5°	1720.0	1728.4	1738.1	1764.6	1819.9	1828.3	1921.0	2049.8	2195.5	2356.8	2483.1
15°	1720.0	1726.0	1732.1	1745.3	1789.8	1797.1	1878.9	2007.7	2171.4	2360.4	2524.1
17.5°	1738.1	1747.7	1742.9	1758.5	1805.5	1810.3	1882.5	1995.7	2170.2	2383.2	2586.6
20°	1781.4	1788.6	1779.0	1788.6	1835.6	1845.2	1919.8	2018.5	2190.6	2423.0	2664.9
22.5°	1850.0	1853.6	1830.8	1838.0	1886.1	1898.2	1984.8	2083.5	2240.0	2486.7	2769.6
25°	1936.7	1943.9	1909.0	1917.4	1963.2	1977.6	2077.5	2181.0	2318.2	2574.6	2903.2
27.5°	2036.6	2040.2	2010.1	2008.9	2067.9	2088.3	2189.4	2301.4	2423.0	2685.3	3071.7
30°	2150.9	2161.8	2132.9	2128.1	2202.7	2219.5	2319.4	2449.4	2577.0	2851.5	3311.2
32.5°	2241.2	2249.6	2232.8	2244.8	2320.6	2333.9	2477.1	2658.9	2819.0	3087.4	3637.4
35°	2371.2	2376.0	2337.5	2359.2	2445.8	2479.5	2692.6	2952.6	3123.5	3383.5	4063.5
37.5°	2841.8	2841.8	2678.1	2571.0	2654.1	2684.1	2987.5	3322.1	3499.0	3780.7	4600.4
40°	3493.0	3482.2	3242.6	3023.6	3012.7	3071.7	3407.5	3787.9	3984.1	4257.3	5204.6
42.5°	4187.5	4170.7	3844.5	3627.8	3591.7	3612.2	3892.6	4362.0	4561.8	4838.7	5854.6
45°	4803.8	4799.0	4500.5	4209.2	4144.2	4209.2	4498.0	5033.7	5176.9	5468.2	6503.3
47.5°	5320.1	5320.1	5102.3	4912.1	4878.4	4916.9	5317.7	5778.7	5765.5	6138.6	7135.2
50°	5914.7	5909.9	5702.9	5621.1	5656.0	5710.1	6261.4	6563.5	6374.5	6797.0	7699.8
52.5°	6331.2	6360.1	6289.1	6275.8	6454.0	6547.9	7219.5	7331.4	6919.8	7421.7	8122.2
55°	6661.0	6694.7	6776.6	6869.2	7212.3	7335.1	8147.5	8059.7	7376.0	7963.4	8365.4
57.5°	7128.0	7079.9	7206.3	7389.2	7944.1	8092.2	9046.6	8746.9	7743.1	8402.7	8391.9
60°	7694.9	7702.2	7723.8	7954.9	8674.7	8864.9	9932.5	9396.9	7979.0	8672.3	8098.2
62.5°	8376.2	8387.0	8431.6	8786.7	9655.7	9835.0	10876.2	9928.9	8087.3	8596.5	7339.9
65°	8329.3	8375.0	8872.1	10086.6	11147.0	11324.0	11977.5	10302.1	7923.6	7903.2	5976.1
67.5°	7587.8	7662.4	8494.2	11639.3	13395.4	13592.8	13308.8	10375.5	7217.1	6145.8	3898.6
70°	6615.3	6641.8	7642.0	13035.5	15998.9	16198.7	14500.4	9567.8	5476.6	3428.0	1746.5
72.5°	5166.1	5172.1	6345.7	13359.3	17412.0	17422.9	13565.2	7102.7	2945.3	1316.8	606.6
75°	3690.4	3654.3	4250.1	10834.1	15318.9	15441.6	10169.7	3331.7	1125.4	622.3	302.1
77.5°	1978.8	2018.5	2404.9	6425.1	10582.5	10791.9	5548.8	960.5	572.9	423.7	199.8
80°	611.5	645.2	985.8	2941.7	5994.2	6120.6	2057.0	427.3	399.6	302.1	131.2
82.5°	192.6	199.8	459.8	1236.2	2487.9	2545.7	595.8	241.9	273.2	199.8	77.0
85°	55.4	56.6	204.6	461.0	615.1	627.1	167.3	93.9	156.5	124.0	39.7
87.5°	6.0	19.3	77.0	77.0	54.2	53.0	18.1	20.5	44.5	15.6	7.2
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°	2380.8	2380.8	2380.8	2380.8	2380.8	2380.8	2380.8	2380.8	2380.8	2380.8	2380.8
2.5°	2385.6	2386.8	2371.2	2344.7	2315.8	2291.8	2261.7	2237.6	2220.7	2215.9	2224.3
5°	2402.5	2394.1	2349.5	2268.9	2172.6	2089.5	1996.9	1923.4	1875.3	1854.8	1862.0
7.5°	2427.8	2403.7	2306.2	2147.3	1963.2	1799.5	1633.4	1504.6	1422.7	1381.8	1387.8
10°	2449.4	2401.3	2234.0	1971.6	1689.9	1442.0	1218.1	1062.8	976.2	935.2	936.4
12.5°	2469.9	2400.1	2140.1	1763.3	1381.8	1078.5	870.2	793.2	769.1	760.7	758.3
15°	2508.4	2403.7	2022.1	1525.0	1074.9	814.9	739.0	737.8	742.7	740.2	739.0
17.5°	2561.4	2407.3	1888.5	1272.3	829.3	718.6	715.0	725.8	733.0	729.4	728.2
20°	2630.0	2421.7	1746.5	1021.9	712.6	694.5	702.9	712.6	718.6	712.6	711.4
22.5°	2726.3	2447.0	1591.2	820.9	675.2	680.1	687.3	698.1	704.1	695.7	694.5
25°	2844.2	2486.7	1438.4	713.8	657.2	663.2	674.0	686.1	693.3	684.9	683.7
27.5°	2997.1	2550.5	1297.5	689.7	639.1	642.8	658.4	676.5	686.1	675.2	675.2
30°	3218.6	2655.3	1176.0	700.5	628.3	619.9	641.5	666.8	677.7	668.0	666.8
32.5°	3512.3	2803.3	1101.3	717.4	623.5	593.4	613.9	646.4	664.4	658.4	658.4
35°	3897.4	3028.4	1072.5	736.6	619.9	565.7	580.2	615.1	646.4	652.4	652.4
37.5°	4364.4	3341.3	1080.9	745.1	609.0	542.8	550.1	580.2	621.1	640.3	645.2
40°	4895.3	3706.0	1129.0	736.6	597.0	523.6	524.8	547.7	583.8	612.7	622.3
42.5°	5442.9	4132.1	1218.1	705.3	586.2	506.7	503.1	518.8	542.8	563.3	571.7
45°	5964.1	4570.3	1306.0	662.0	572.9	489.9	481.5	487.5	492.3	500.7	505.5
47.5°	6419.1	4878.4	1280.7	622.3	554.9	470.6	456.2	453.8	439.3	438.1	436.9
50°	6733.2	4945.8	1137.5	582.6	528.4	449.0	426.1	411.6	386.4	374.3	375.5
52.5°	6833.1	4679.8	929.2	542.8	485.1	420.1	387.6	364.7	333.4	322.6	321.4
55°	6700.7	4158.6	742.7	494.7	424.9	381.6	345.4	315.4	290.1	276.8	276.8
57.5°	6376.9	3495.4	587.4	438.1	361.1	338.2	302.1	272.0	250.4	237.1	234.7
60°	5840.1	2775.6	464.6	370.7	308.1	291.3	254.0	234.7	215.5	199.8	196.2
62.5°	5025.2	1981.2	364.7	293.7	257.6	238.3	216.7	202.2	179.3	157.7	154.1
65°	3921.5	1212.1	281.7	215.5	207.0	197.4	184.2	170.9	143.2	121.6	118.0
67.5°	2473.5	574.1	201.0	162.5	163.7	158.9	152.9	142.0	121.6	102.3	99.9
70°	1089.3	278.0	132.4	124.0	121.6	121.6	126.4	122.8	103.5	85.5	81.8
72.5°	370.7	149.3	98.7	93.9	87.9	86.7	105.9	102.3	83.1	66.2	62.6
75°	193.8	99.9	72.2	67.4	53.0	63.8	84.3	79.4	59.0	43.3	39.7
77.5°	126.4	71.0	49.3	43.3	30.1	42.1	62.6	55.4	34.9	21.7	19.3
80°	79.4	46.9	28.9	20.5	14.4	22.9	33.7	24.1	13.2	4.8	3.6
82.5°	42.1	24.1	10.8	7.2	6.0	7.2	8.4	6.0	2.4	0.0	0.0
85°	16.9	8.4	3.6	2.4	1.2	0.0	2.4	1.2	0.0	0.0	0.0
87.5°	6.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)