

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: P964703

Luminaire Tested: **NAV-SB3C-827-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964703
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-827-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15427.3 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 149.1
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



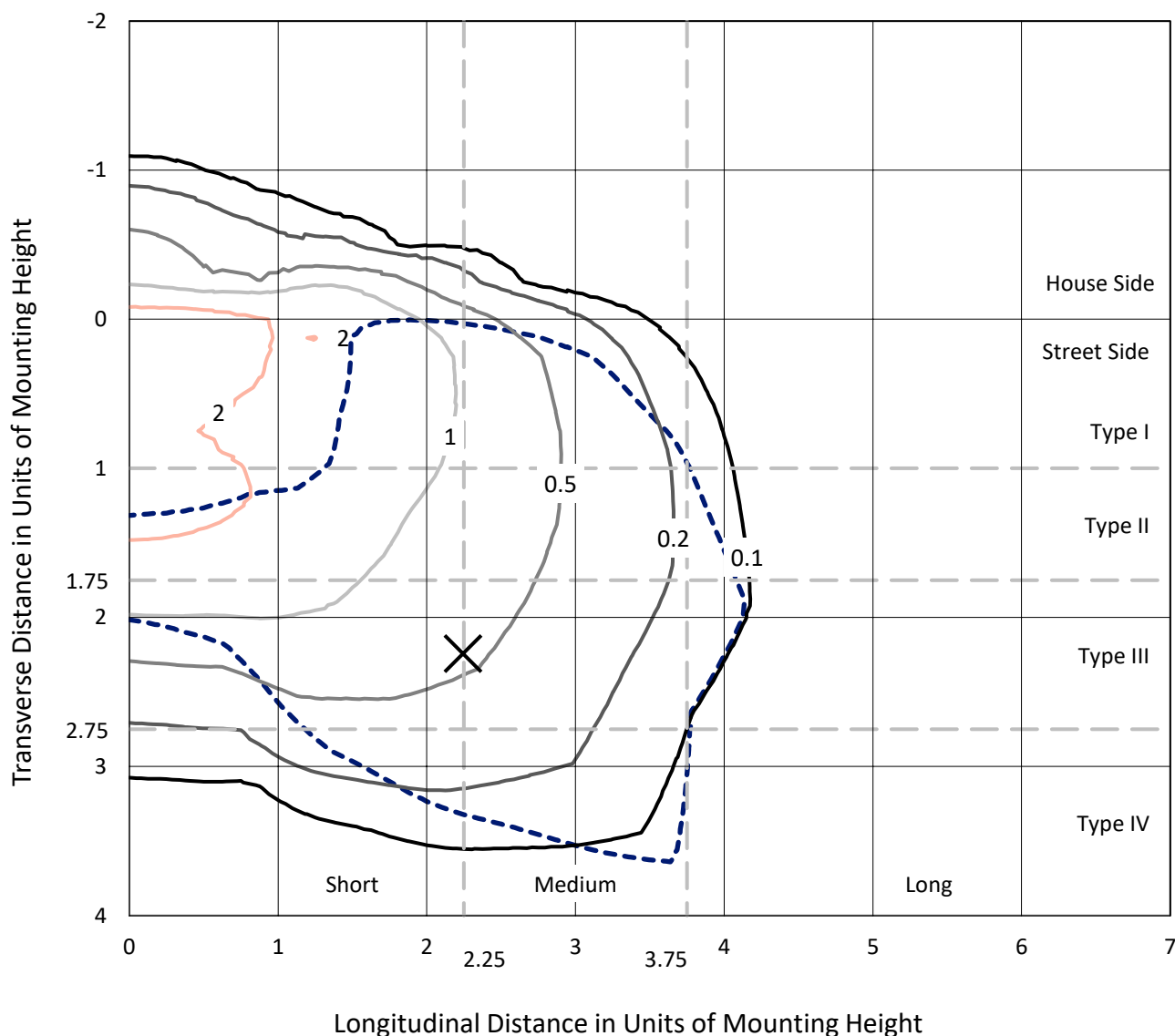
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

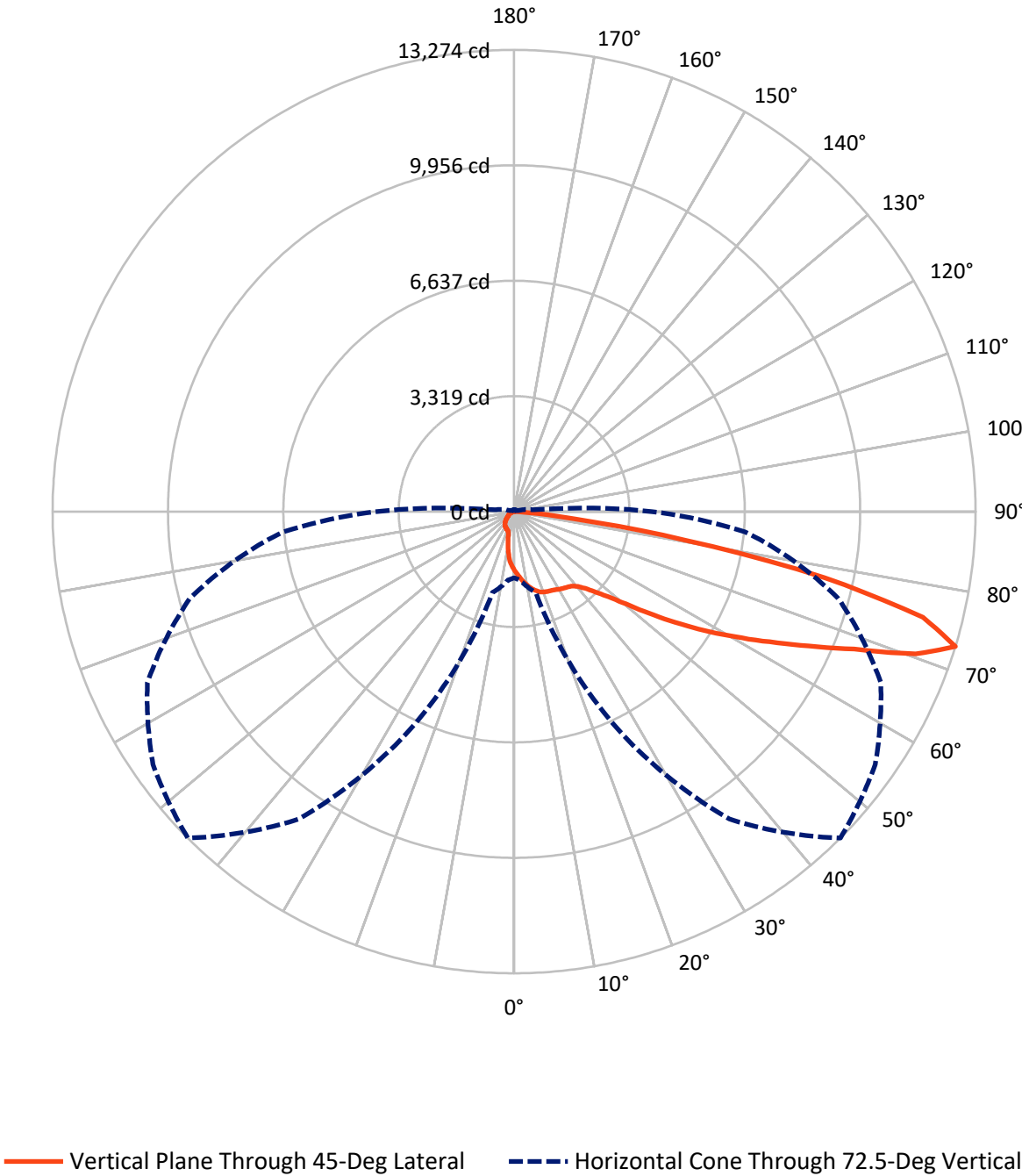


Based on 25 foot mounting height. Maximum calculated value = 3.7 fc

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	1621.0	0.0	1621.0
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	13806.3	0.0	13806.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	15427.3	0.0	15427.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.2	1.0
10°-20°	465.4	3.0
20°-30°	764.3	5.0
30°-40°	1083.9	7.0
40°-50°	1791.5	11.6
50°-60°	3218.3	20.9
60°-70°	4468.8	29.0
70°-80°	3241.5	21.0
80°-90°	234.3	1.5
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°	15427.3	100.0
0°-180°	15427.3	100.0

Coefficient of Utilization



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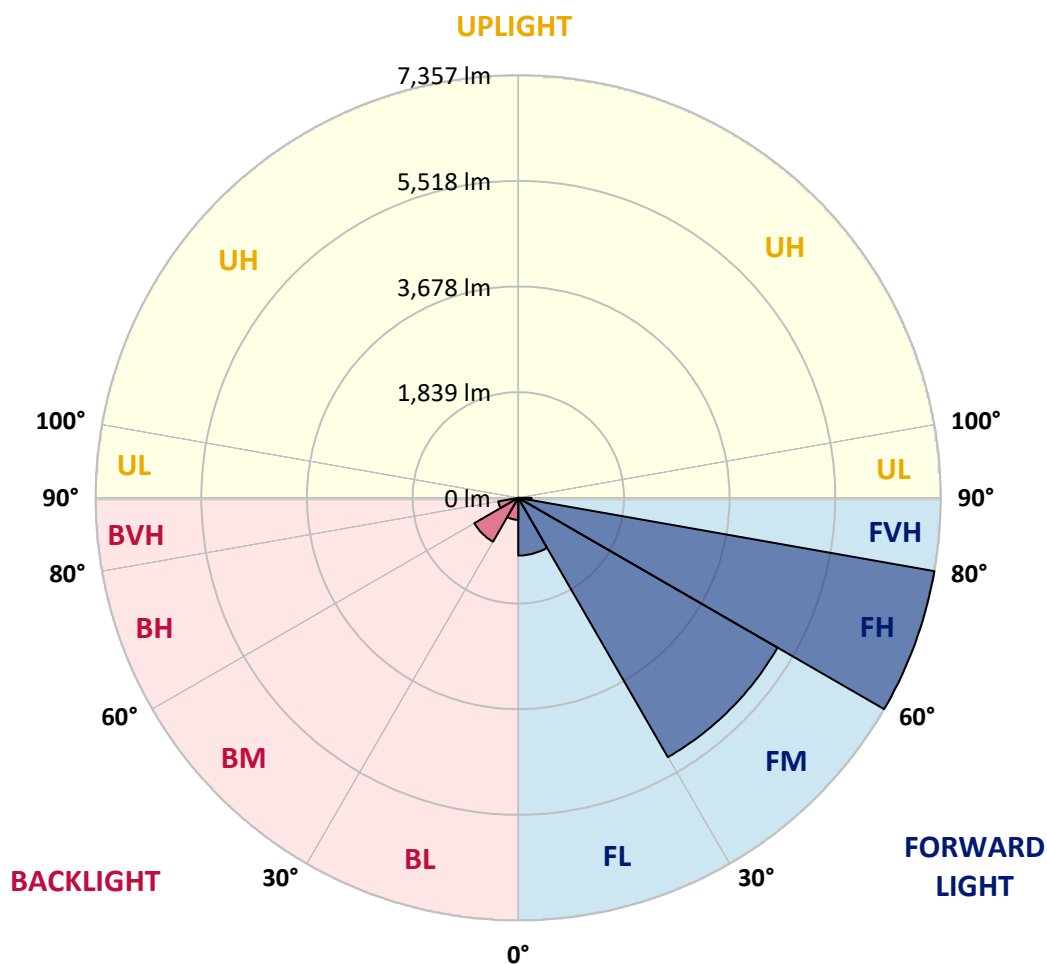
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1004.9	6.5			
FM	(30°-60°)	5212.2	33.8			
FH	(60°-80°)	7356.8	47.7			G3/7500
FVH	(80°-90°)	232.4	1.5			G3/500
BL	(0°-30°)	383.9	2.5	B1/500		
BM	(30°-60°)	881.6	5.7	B1/1000		
BH	(60°-80°)	353.5	2.3	B1/500		G1/500
BVH	(80°-90°)	2.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1690.1	1690.1	1690.1	1690.1	1690.1	1690.1	1690.1	1690.1	1690.1	1690.1	1690.1
2.5°	1845.9	1849.1	1846.9	1834.3	1813.3	1801.7	1795.4	1774.4	1760.6	1736.5	1711.1
5°	2015.5	2028.1	2020.8	1995.5	1955.5	1927.0	1918.6	1875.4	1836.5	1791.2	1738.5
7.5°	2195.5	2201.9	2188.2	2155.6	2101.9	2053.4	2046.0	1985.9	1923.8	1854.3	1782.8
10°	2351.4	2358.7	2337.7	2290.3	2229.3	2169.2	2158.6	2092.3	2018.6	1933.4	1841.7
12.5°	2481.9	2489.3	2461.9	2405.1	2337.7	2275.6	2265.0	2195.5	2114.5	2019.7	1906.0
15°	2581.0	2594.6	2557.8	2496.7	2424.0	2361.9	2356.7	2288.2	2209.2	2103.9	1982.9
17.5°	2638.9	2652.6	2617.7	2544.0	2481.9	2429.4	2423.0	2366.1	2292.4	2191.3	2057.6
20°	2648.3	2661.0	2624.1	2559.8	2508.3	2466.1	2463.0	2422.0	2368.3	2271.4	2138.7
22.5°	2619.9	2635.7	2602.0	2550.4	2514.6	2492.5	2488.3	2465.1	2434.6	2352.5	2214.5
25°	2590.4	2603.1	2577.8	2532.5	2513.5	2511.5	2514.6	2510.4	2504.1	2434.6	2303.0
27.5°	2588.3	2602.0	2573.6	2530.4	2519.9	2542.0	2545.2	2565.2	2570.4	2509.3	2388.2
30°	2606.2	2615.7	2588.3	2543.0	2537.8	2588.3	2589.4	2625.1	2633.6	2572.5	2472.5
32.5°	2645.2	2655.7	2628.3	2562.0	2554.6	2625.1	2628.3	2675.8	2689.4	2639.9	2561.0
35°	2736.7	2749.5	2717.8	2614.7	2588.3	2659.9	2669.4	2725.2	2752.5	2711.5	2652.6
37.5°	2965.3	2928.4	2885.3	2721.0	2665.2	2714.7	2730.5	2795.8	2844.2	2796.8	2762.1
40°	3532.9	3417.0	3282.3	2902.1	2800.0	2831.6	2844.2	2909.5	2975.8	2929.4	2912.6
42.5°	4384.7	4247.9	4030.9	3319.2	3003.2	3019.0	3028.5	3085.4	3179.0	3142.2	3146.4
45°	5144.0	5094.5	4873.4	4030.9	3383.3	3305.4	3317.0	3346.5	3484.4	3470.8	3498.1
47.5°	5727.4	5698.9	5528.3	4848.0	4025.7	3656.1	3688.7	3702.4	3901.5	3949.8	4023.5
50°	6175.9	6165.4	6012.8	5574.7	4865.0	4173.1	4184.7	4155.2	4453.2	4573.2	4713.3
52.5°	6599.3	6635.0	6522.4	6249.6	5761.0	4850.2	4848.0	4709.1	5111.4	5292.5	5531.5
55°	6981.5	6994.1	7005.7	6938.3	6662.4	5621.0	5601.0	5373.6	5874.8	6062.3	6321.3
57.5°	7340.5	7345.9	7449.1	7586.9	7600.7	6448.7	6411.8	6139.0	6708.7	6842.5	7001.5
60°	7581.7	7605.9	7823.9	8207.2	8374.7	7302.7	7282.6	7004.6	7557.5	7619.6	7590.1
62.5°	7234.2	7381.6	7931.3	8691.6	9105.4	8249.3	8239.9	7978.7	8450.4	8399.9	8147.2
65°	5855.8	6105.4	7072.1	9019.1	9822.6	9306.6	9320.2	9042.2	9367.7	9203.4	8600.0
67.5°	4096.2	4359.5	5503.0	9045.4	10623.9	10548.1	10627.0	10191.1	10341.6	9973.1	8707.4
70°	2832.6	2968.5	3713.0	8478.9	11248.3	12258.2	12256.0	11602.2	11310.5	10323.8	8159.8
72.5°	1904.9	1975.5	2411.4	6726.7	10789.3	13274.4	13213.3	12680.4	11636.9	9655.1	6666.6
75°	803.5	855.1	1116.2	3780.3	8535.8	12144.4	11979.1	11206.2	10339.6	7602.7	4159.4
77.5°	254.8	277.0	440.1	1353.1	4701.7	9128.5	8953.8	6998.4	6929.9	3814.0	1520.6
80°	121.1	141.1	247.4	543.4	1850.1	4965.0	4940.7	3174.8	2981.1	1029.8	305.3
82.5°	52.7	62.1	136.9	290.6	827.7	1771.2	1807.0	1080.4	894.0	390.6	93.7
85°	16.8	22.1	63.1	133.8	349.6	440.1	434.9	257.0	360.1	212.7	32.6
87.5°	0.0	0.0	21.0	30.5	35.8	25.3	28.4	22.1	100.0	58.9	11.6
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°	1690.1	1690.1	1690.1	1690.1	1690.1	1690.1	1690.1	1690.1	1690.1	1690.1	1690.1
2.5°	1698.5	1681.7	1652.2	1624.8	1600.5	1576.3	1561.6	1540.6	1538.4	1538.4	1543.8
5°	1710.1	1682.7	1630.1	1574.3	1510.0	1448.9	1387.8	1328.9	1309.9	1296.2	1302.6
7.5°	1743.8	1700.6	1617.4	1511.1	1389.0	1255.2	1161.4	1060.4	1021.4	1000.4	1003.5
10°	1792.2	1733.3	1606.9	1420.5	1222.5	1040.4	906.6	797.1	755.0	737.1	737.1
12.5°	1845.9	1773.2	1587.9	1307.8	1040.4	822.4	691.9	641.2	635.0	635.0	635.0
15°	1910.2	1821.7	1555.3	1175.2	849.8	650.8	604.4	606.5	612.8	617.0	617.0
17.5°	1976.5	1873.3	1503.7	1026.6	681.3	585.5	586.5	589.7	594.9	599.2	599.2
20°	2048.2	1925.0	1435.3	868.7	584.5	566.5	569.7	572.9	577.1	579.1	580.3
22.5°	2125.0	1973.3	1354.1	713.9	551.8	550.7	551.8	554.9	560.2	560.2	562.3
25°	2207.1	2027.0	1261.5	601.3	534.9	534.9	537.0	539.2	543.4	543.4	544.4
27.5°	2291.4	2076.5	1163.6	542.3	520.2	519.2	519.2	522.3	524.4	525.4	526.5
30°	2384.0	2134.5	1065.7	529.6	508.6	503.4	500.2	502.2	504.4	505.4	507.6
32.5°	2478.8	2190.3	978.3	534.9	497.0	487.6	477.0	474.9	474.9	479.1	482.3
35°	2584.1	2251.3	910.8	552.8	490.7	464.4	447.5	438.1	439.1	445.5	448.5
37.5°	2710.5	2325.1	861.4	568.7	486.5	438.1	410.7	399.1	391.8	399.1	397.0
40°	2875.7	2433.6	825.5	581.3	481.2	407.5	370.6	351.7	338.0	342.2	340.1
42.5°	3119.1	2604.1	811.9	582.3	469.7	371.7	329.6	304.3	284.3	285.4	281.2
45°	3460.2	2873.7	882.4	568.7	444.3	332.7	286.4	252.8	240.1	236.9	232.7
47.5°	3927.8	3266.5	1045.6	540.2	407.5	294.9	244.3	215.9	206.4	201.1	197.9
50°	4554.3	3770.9	1226.7	508.6	370.6	259.0	209.5	191.7	185.3	180.1	179.0
52.5°	5280.9	4282.7	1375.2	477.0	333.8	227.4	187.5	176.9	171.7	167.4	166.4
55°	5947.5	4635.4	1366.8	443.3	298.0	202.1	171.7	165.3	159.0	154.8	152.7
57.5°	6362.3	4684.9	1126.7	406.5	257.0	182.1	156.9	152.7	145.3	140.0	139.0
60°	6552.9	4402.7	789.8	358.0	215.9	163.2	141.1	139.0	129.6	122.2	120.0
62.5°	6587.7	3878.3	526.5	298.0	180.1	145.3	125.4	122.2	109.5	96.9	90.6
65°	6446.5	3128.5	364.4	232.7	153.8	126.4	107.4	101.1	87.4	74.7	70.5
67.5°	6000.0	2196.6	253.8	167.4	130.6	100.0	85.3	83.2	72.7	62.1	58.9
70°	5181.9	1252.0	169.5	125.4	103.2	68.5	67.3	69.5	58.9	50.5	46.3
72.5°	3973.0	572.9	105.3	91.6	70.5	46.3	53.7	54.7	45.3	37.9	33.7
75°	2338.7	245.4	66.3	58.9	35.8	30.5	38.9	40.0	30.5	24.2	21.0
77.5°	796.1	92.7	42.1	34.7	17.9	16.8	25.3	25.3	16.8	9.4	7.4
80°	181.1	34.7	21.0	13.7	8.4	7.4	8.4	7.4	4.2	1.0	0.0
82.5°	51.6	13.7	8.4	5.2	3.2	3.2	1.0	0.0	0.0	0.0	0.0
85°	14.8	6.4	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.4	1.0	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)