

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: P964765

Luminaire Tested: **NAV-SB3C-835-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964765
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-835-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3500K, 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: 16455.3 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

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



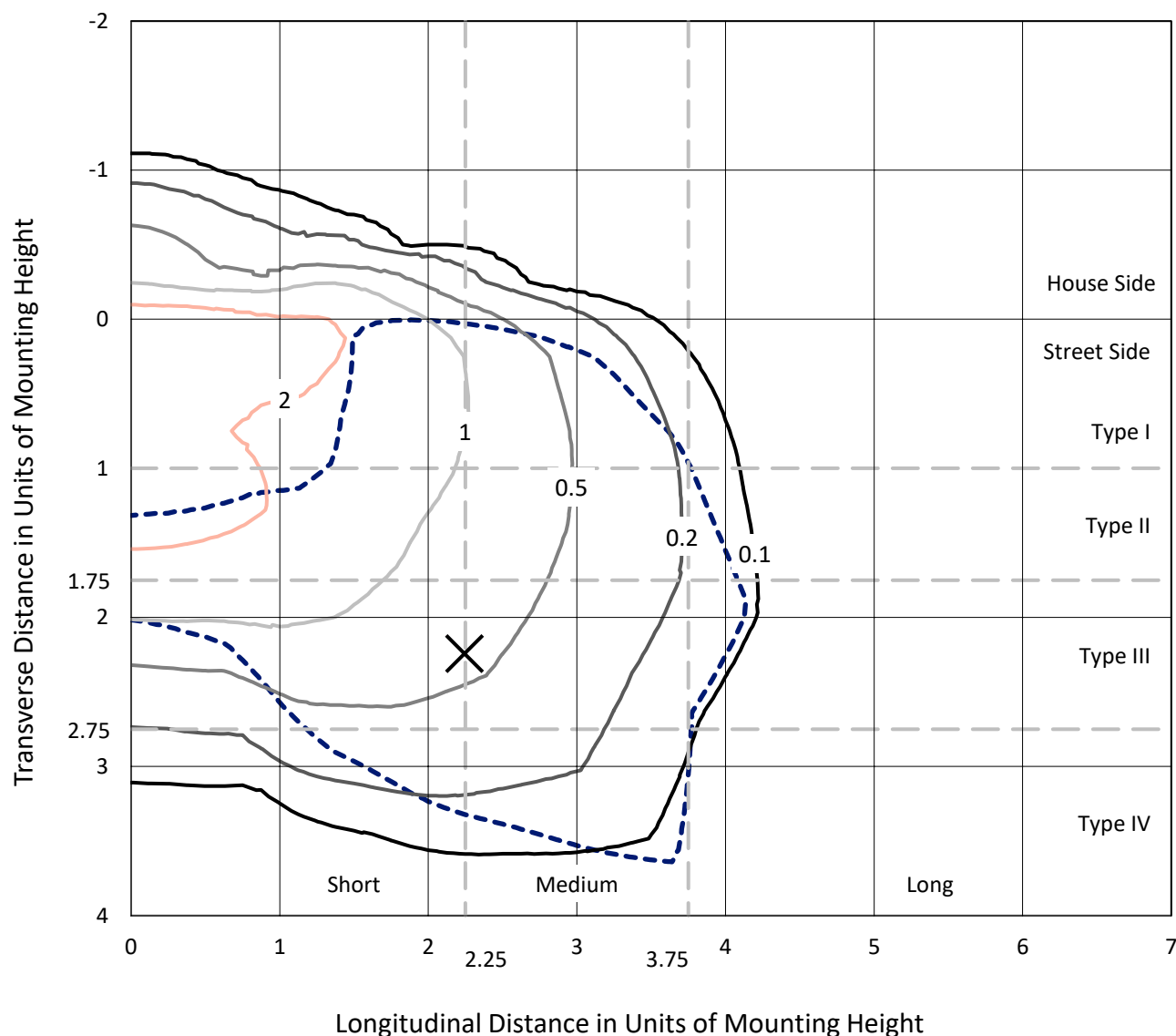
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

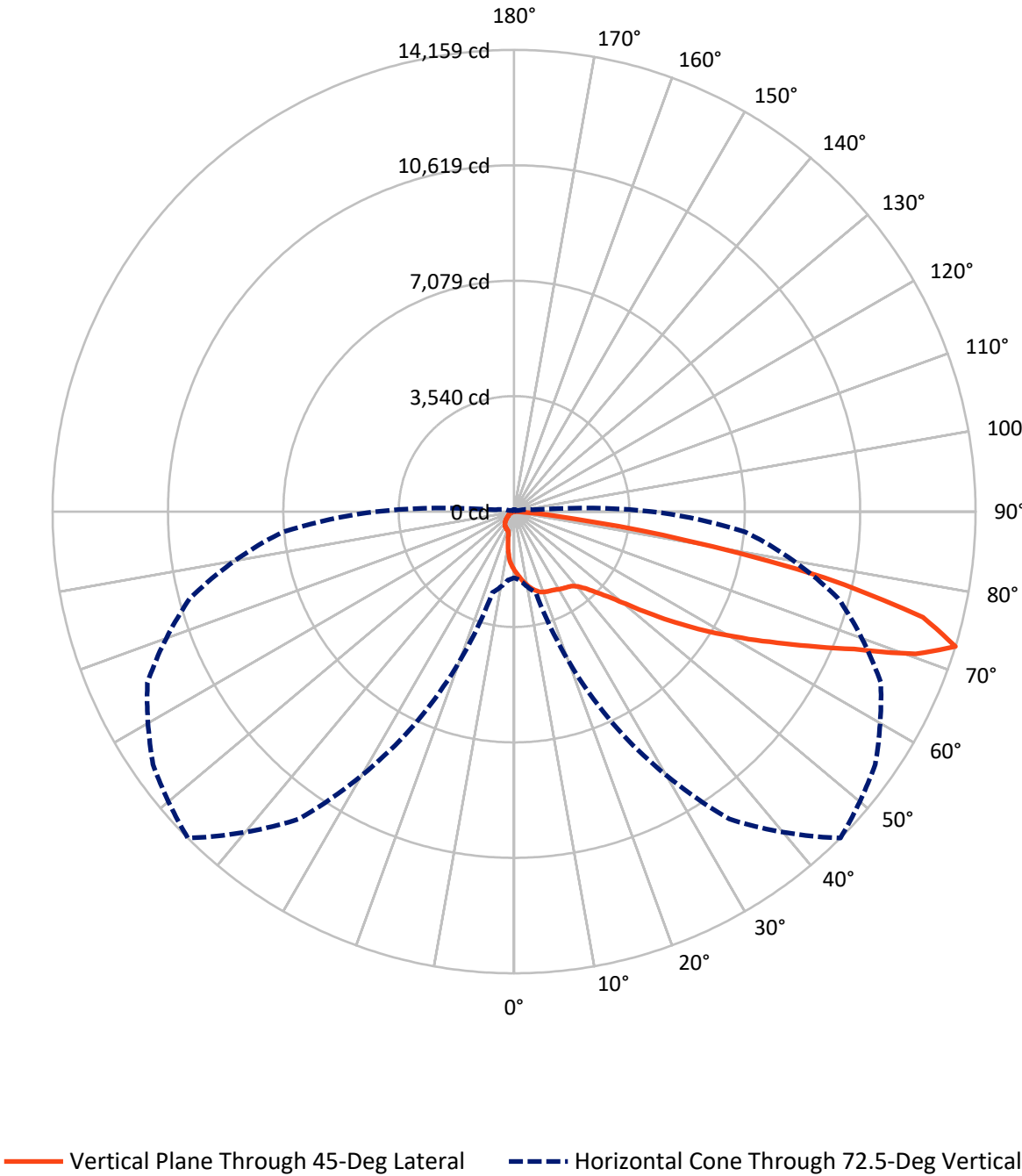


Based on 25 foot mounting height. Maximum calculated value = 4 fc

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	1729.0	0.0	1729.0
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	14726.3	0.0	14726.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	16455.3	0.0	16455.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.9	1.0
10°-20°	496.4	3.0
20°-30°	815.2	5.0
30°-40°	1156.1	7.0
40°-50°	1910.9	11.6
50°-60°	3432.8	20.9
60°-70°	4766.6	29.0
70°-80°	3457.5	21.0
80°-90°	250.0	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°	16455.3	100.0
0°-180°	16455.3	100.0

Coefficient of Utilization



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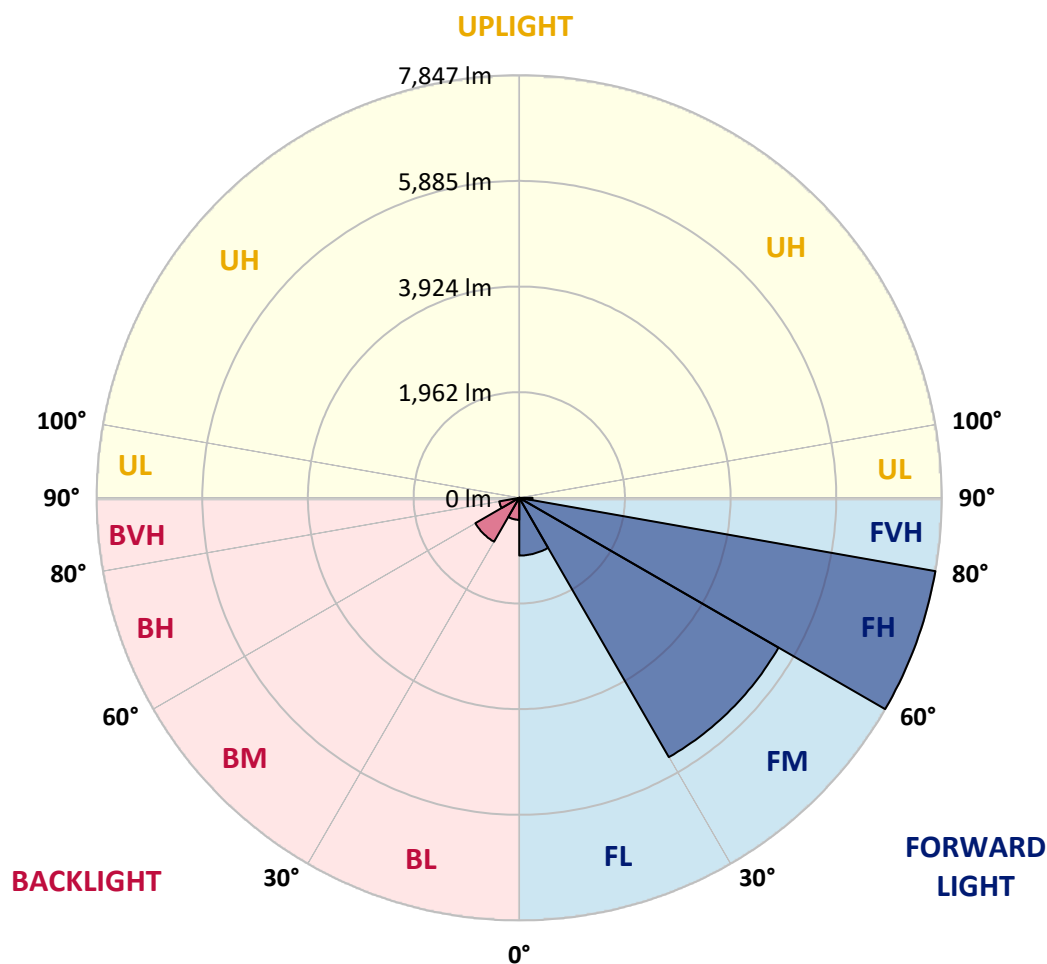
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1071.9	6.5			
FM	(30°-60°)	5559.5	33.8			
FH	(60°-80°)	7847.1	47.7			G4/12000
FVH	(80°-90°)	247.9	1.5			G3/500
BL	(0°-30°)	409.5	2.5	B1/500		
BM	(30°-60°)	940.3	5.7	B1/1000		
BH	(60°-80°)	377.0	2.3	B1/500		G1/500
BVH	(80°-90°)	2.1	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1802.7	1802.7	1802.7	1802.7	1802.7	1802.7	1802.7	1802.7	1802.7	1802.7	1802.7
2.5°	1968.9	1972.3	1970.0	1956.6	1934.2	1921.8	1915.0	1892.6	1878.0	1852.2	1825.2
5°	2149.8	2163.3	2155.4	2128.4	2085.8	2055.4	2046.4	2000.4	1958.9	1910.5	1854.4
7.5°	2341.8	2348.6	2334.0	2299.2	2241.9	2190.2	2182.3	2118.4	2052.0	1977.9	1901.6
10°	2508.1	2516.0	2493.5	2443.0	2377.8	2313.7	2302.6	2231.7	2153.1	2062.2	1964.4
12.5°	2647.4	2655.3	2626.0	2565.4	2493.5	2427.2	2416.0	2341.8	2255.4	2154.2	2033.0
15°	2752.9	2767.5	2728.2	2663.1	2585.6	2519.3	2513.7	2440.7	2356.5	2244.1	2115.0
17.5°	2814.8	2829.3	2792.2	2713.6	2647.4	2591.2	2584.4	2523.8	2445.1	2337.3	2194.7
20°	2824.8	2838.3	2799.0	2730.5	2675.5	2630.6	2627.2	2583.3	2526.0	2422.7	2281.2
22.5°	2794.5	2811.4	2775.4	2720.4	2682.2	2658.5	2654.1	2629.4	2596.8	2509.2	2362.1
25°	2763.1	2776.5	2749.6	2701.3	2681.1	2678.8	2682.2	2677.7	2670.9	2596.8	2456.4
27.5°	2760.8	2775.4	2745.1	2699.0	2687.8	2711.3	2714.7	2736.1	2741.7	2676.6	2547.4
30°	2779.9	2790.0	2760.8	2712.5	2706.9	2760.8	2762.0	2800.1	2809.1	2743.9	2637.2
32.5°	2821.4	2832.7	2803.5	2732.8	2724.9	2800.1	2803.5	2854.0	2868.7	2815.9	2731.6
35°	2919.2	2932.6	2898.9	2788.9	2760.8	2837.2	2847.2	2906.8	2936.0	2892.2	2829.3
37.5°	3162.9	3123.6	3077.6	2902.3	2842.8	2895.6	2912.4	2982.0	3033.7	2983.2	2946.2
40°	3768.3	3644.8	3501.0	3095.5	2986.5	3020.3	3033.7	3103.4	3174.1	3124.7	3106.8
42.5°	4677.0	4530.9	4299.6	3540.2	3203.3	3220.1	3230.3	3291.0	3390.9	3351.6	3356.1
45°	5486.8	5434.0	5198.1	4299.6	3608.8	3525.7	3538.1	3569.5	3716.6	3702.0	3731.2
47.5°	6109.0	6078.7	5896.7	5171.1	4293.9	3899.7	3934.6	3949.1	4161.4	4213.1	4291.7
50°	6587.5	6576.3	6413.4	5946.1	5189.2	4451.2	4463.6	4432.1	4750.0	4878.0	5027.4
52.5°	7039.0	7077.2	6957.0	6666.1	6145.0	5173.4	5171.1	5022.9	5452.0	5645.2	5900.1
55°	7446.7	7460.3	7472.6	7400.7	7106.4	5995.5	5974.2	5731.6	6266.2	6466.2	6742.6
57.5°	7829.8	7835.4	7945.4	8092.6	8107.1	6878.4	6839.1	6548.2	7155.8	7298.5	7468.0
60°	8086.9	8112.8	8345.3	8754.1	8932.8	7789.3	7768.0	7471.4	8061.1	8127.4	8096.0
62.5°	7716.3	7873.5	8459.8	9270.8	9712.2	8799.1	8789.0	8510.4	9013.5	8959.7	8690.2
65°	6246.0	6512.2	7543.4	9620.1	10477.1	9926.7	9941.4	9644.8	9991.9	9816.6	9173.1
67.5°	4369.2	4650.0	5869.8	9648.2	11331.9	11251.0	11335.3	10870.2	11030.8	10637.8	9287.6
70°	3021.4	3166.2	3960.4	9043.9	11997.9	13075.0	13072.7	12375.3	12064.1	11011.8	8703.6
72.5°	2031.9	2107.1	2572.1	7174.9	11508.2	14158.9	14093.7	13525.5	12412.3	10298.5	7110.9
75°	857.0	912.0	1190.5	4032.2	9104.6	12953.7	12777.4	11952.9	11028.6	8109.4	4436.6
77.5°	271.8	295.4	469.4	1443.3	5015.0	9736.9	9550.4	7464.7	7391.7	4068.2	1621.9
80°	129.1	150.5	263.9	579.5	1973.4	5295.9	5270.0	3386.4	3179.8	1098.5	325.7
82.5°	56.2	66.3	146.1	310.0	882.8	1889.2	1927.4	1152.4	953.6	416.7	99.9
85°	17.9	23.6	67.3	142.7	372.9	469.4	463.9	274.1	384.2	226.9	34.8
87.5°	0.0	0.0	22.4	32.6	38.2	27.0	30.3	23.6	106.7	62.9	12.4
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°	1802.7	1802.7	1802.7	1802.7	1802.7	1802.7	1802.7	1802.7	1802.7	1802.7	1802.7
2.5°	1811.7	1793.7	1762.3	1733.1	1707.2	1681.4	1665.7	1643.2	1641.0	1641.0	1646.6
5°	1824.1	1794.9	1738.7	1679.2	1610.7	1545.5	1480.4	1417.5	1397.3	1382.6	1389.4
7.5°	1860.0	1813.9	1725.2	1611.8	1481.5	1338.9	1238.9	1131.1	1089.5	1067.0	1070.4
10°	1911.6	1848.8	1714.0	1515.2	1304.0	1109.7	967.1	850.2	805.3	786.3	786.3
12.5°	1968.9	1891.4	1693.8	1395.0	1109.7	877.2	737.9	684.0	677.3	677.3	677.3
15°	2037.5	1943.1	1659.0	1253.5	906.4	694.1	644.7	647.0	653.7	658.2	658.2
17.5°	2108.2	1998.1	1603.9	1095.1	726.7	624.5	625.7	628.9	634.6	639.1	639.1
20°	2184.6	2053.2	1530.9	926.6	623.4	604.2	607.6	611.0	615.5	617.8	618.9
22.5°	2266.6	2104.8	1444.4	761.5	588.6	587.4	588.6	591.9	597.6	597.6	599.8
25°	2354.2	2162.1	1345.6	641.3	570.6	570.6	572.9	575.0	579.5	579.5	580.7
27.5°	2444.0	2214.9	1241.2	578.4	554.8	553.7	553.7	557.1	559.3	560.5	561.6
30°	2542.9	2276.7	1136.6	565.0	542.5	536.9	533.5	535.8	538.0	539.2	541.4
32.5°	2644.0	2336.3	1043.4	570.6	530.1	520.1	508.8	506.6	506.6	511.1	514.4
35°	2756.3	2401.4	971.6	589.7	523.4	495.3	477.3	467.3	468.3	475.1	478.5
37.5°	2891.1	2480.0	918.8	606.5	519.0	467.3	438.1	425.7	417.8	425.7	423.4
40°	3067.4	2595.7	880.6	620.0	513.3	434.7	395.3	375.2	360.5	365.0	362.7
42.5°	3326.8	2777.6	866.0	621.2	500.9	396.5	351.6	324.6	303.3	304.4	299.9
45°	3690.8	3065.2	941.3	606.5	474.0	355.0	305.6	269.6	256.0	252.8	248.3
47.5°	4189.5	3484.2	1115.3	576.2	434.7	314.5	260.6	230.2	220.2	214.5	211.2
50°	4857.8	4022.1	1308.5	542.5	395.3	276.3	223.6	204.4	197.7	192.1	191.0
52.5°	5632.8	4568.0	1466.9	508.8	356.1	242.6	200.0	188.7	183.1	178.6	177.4
55°	6343.7	4944.3	1457.9	472.8	317.9	215.7	183.1	176.3	169.6	165.1	162.9
57.5°	6786.3	4997.1	1201.8	433.6	274.1	194.3	167.4	162.9	155.0	149.3	148.2
60°	6989.6	4696.0	842.3	381.9	230.2	174.0	150.5	148.2	138.2	130.3	128.0
62.5°	7026.7	4136.7	561.6	317.9	192.1	155.0	133.7	130.3	116.8	103.3	96.6
65°	6876.2	3337.0	388.6	248.3	164.0	134.8	114.6	107.8	93.3	79.7	75.2
67.5°	6399.9	2342.9	270.7	178.6	139.3	106.7	91.0	88.8	77.5	66.3	62.9
70°	5527.2	1335.5	180.8	133.7	110.1	73.0	71.9	74.1	62.9	53.9	49.4
72.5°	4237.8	611.0	112.3	97.7	75.2	49.4	57.3	58.4	48.3	40.4	36.0
75°	2494.6	261.7	70.7	62.9	38.2	32.6	41.5	42.6	32.6	25.8	22.4
77.5°	849.1	98.8	44.9	37.1	19.1	17.9	27.0	27.0	17.9	10.1	7.9
80°	193.2	37.1	22.4	14.6	9.0	7.9	9.0	7.9	4.5	1.1	0.0
82.5°	55.0	14.6	9.0	5.6	3.4	3.4	1.1	0.0	0.0	0.0	0.0
85°	15.7	6.8	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.8	1.1	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)