

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: P964579

Luminaire Tested: **NAV-SB3C-735-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964579
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-735-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 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: 17740.7 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - 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

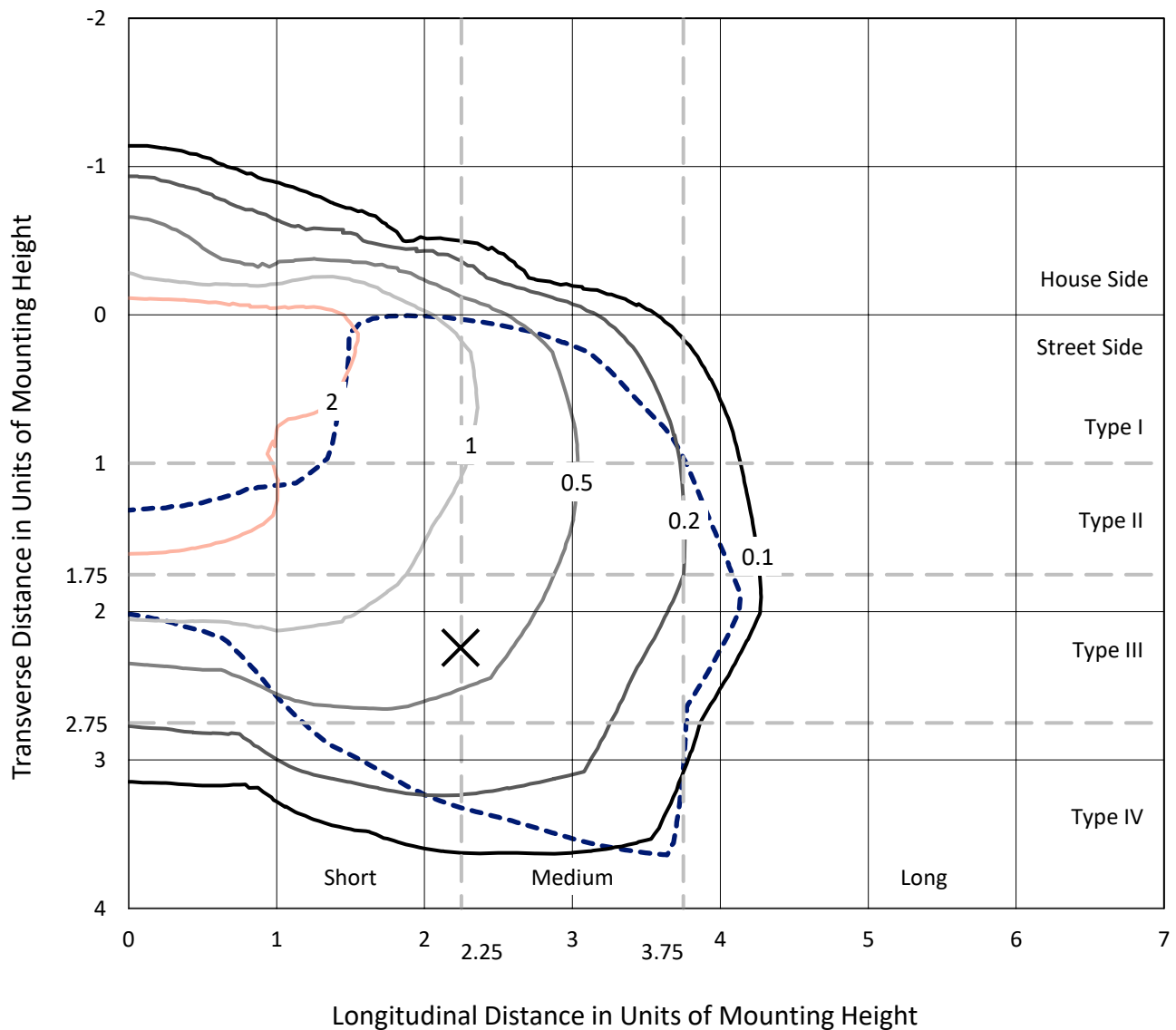


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

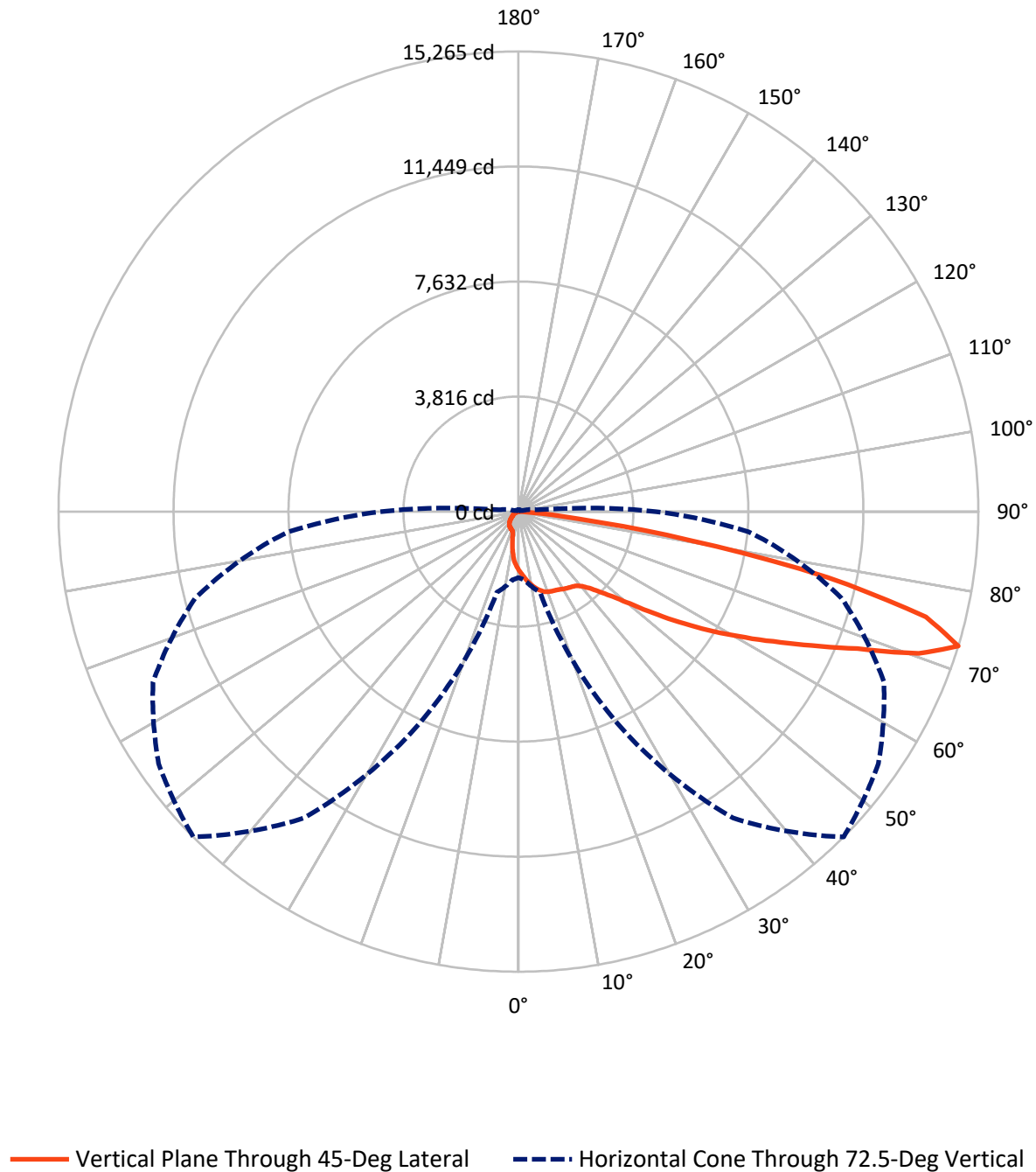


Based on 25 foot mounting height. Maximum calculated value = 4.3 fc

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	1864.1	0.0	1864.1
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	15876.6	0.0	15876.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	17740.7	0.0	17740.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.1	1.0
10°-20°	535.2	3.0
20°-30°	878.9	5.0
30°-40°	1246.4	7.0
40°-50°	2060.2	11.6
50°-60°	3700.9	20.9
60°-70°	5138.9	29.0
70°-80°	3727.6	21.0
80°-90°	269.5	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°	17740.7	100.0
0°-180°	17740.7	100.0

Coefficient of Utilization



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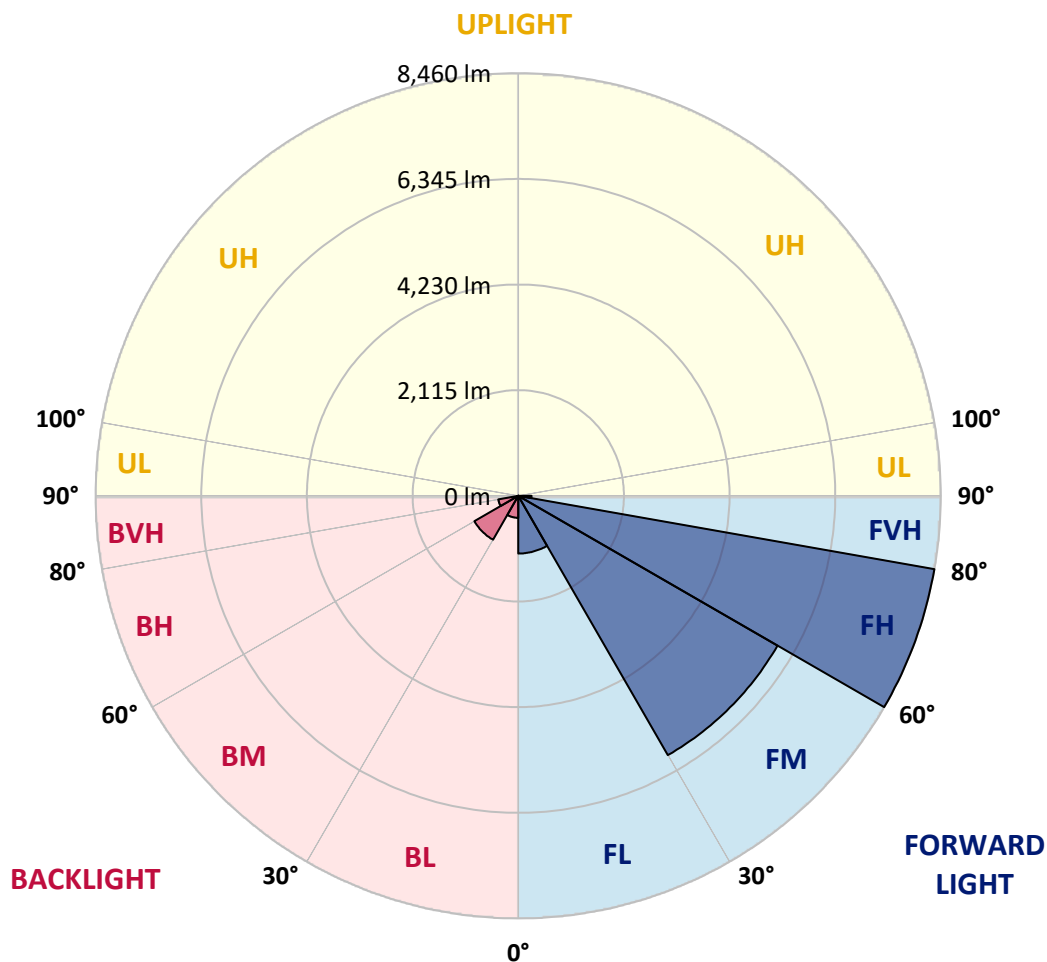
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1155.6	6.5			
FM	(30°-60°)	5993.8	33.8			
FH	(60°-80°)	8460.0	47.7			G4/12000
FVH	(80°-90°)	267.2	1.5			G3/500
BL	(0°-30°)	441.5	2.5	B1/500		
BM	(30°-60°)	1013.8	5.7	B2/2500		
BH	(60°-80°)	406.5	2.3	B1/500		G1/500
BVH	(80°-90°)	2.3	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1943.5	1943.5	1943.5	1943.5	1943.5	1943.5	1943.5	1943.5	1943.5	1943.5	1943.5
2.5°	2122.8	2126.4	2124.0	2109.4	2085.3	2071.9	2064.7	2040.4	2024.7	1996.8	1967.8
5°	2317.7	2332.3	2323.8	2294.7	2248.6	2215.9	2206.3	2156.7	2111.8	2059.7	1999.3
7.5°	2524.8	2532.1	2516.3	2478.8	2417.1	2361.3	2352.8	2283.8	2212.4	2132.4	2050.1
10°	2704.0	2712.5	2688.3	2633.7	2563.5	2494.5	2482.3	2406.1	2321.3	2223.2	2117.9
12.5°	2854.1	2862.6	2831.2	2765.8	2688.3	2616.8	2604.7	2524.8	2431.5	2322.5	2191.8
15°	2968.0	2983.7	2941.3	2871.1	2787.6	2716.1	2710.0	2631.4	2540.6	2419.4	2280.2
17.5°	3034.6	3050.3	3010.3	2925.6	2854.1	2793.6	2786.4	2721.0	2636.2	2520.0	2366.1
20°	3045.5	3060.0	3017.6	2943.8	2884.5	2836.0	2832.4	2785.1	2723.3	2612.0	2459.4
22.5°	3012.8	3030.9	2992.2	2932.8	2891.7	2866.2	2861.4	2834.7	2799.7	2705.2	2546.6
25°	2978.9	2993.4	2964.3	2912.2	2890.5	2888.0	2891.7	2886.8	2879.5	2799.7	2648.3
27.5°	2976.5	2992.2	2959.5	2909.9	2897.8	2923.2	2926.8	2949.8	2955.9	2885.6	2746.4
30°	2997.0	3008.0	2976.5	2924.4	2918.3	2976.5	2977.6	3018.8	3028.6	2958.3	2843.2
32.5°	3041.8	3054.0	3022.4	2946.2	2937.6	3018.8	3022.4	3076.9	3092.7	3035.7	2944.9
35°	3147.2	3161.7	3125.4	3006.7	2976.5	3058.8	3069.7	3133.8	3165.3	3118.2	3050.3
37.5°	3410.0	3367.5	3317.9	3129.0	3064.9	3121.7	3139.9	3215.0	3270.7	3216.2	3176.3
40°	4062.7	3929.4	3774.5	3337.3	3219.8	3256.2	3270.7	3345.8	3422.1	3368.8	3349.4
42.5°	5042.3	4884.8	4635.5	3816.8	3453.5	3471.7	3482.6	3548.0	3655.8	3613.4	3618.2
45°	5915.4	5858.5	5604.2	4635.5	3890.7	3801.1	3814.4	3848.4	4006.9	3991.2	4022.7
47.5°	6586.2	6553.5	6357.4	5575.1	4629.3	4204.3	4241.9	4257.6	4486.4	4542.2	4627.0
50°	7102.0	7089.9	6914.3	6410.7	5594.4	4798.8	4812.2	4778.3	5121.0	5259.1	5420.1
52.5°	7588.9	7630.0	7500.4	7186.8	6625.0	5577.5	5575.1	5415.3	5877.9	6086.1	6360.9
55°	8028.4	8043.0	8056.3	7978.8	7661.5	6464.0	6440.9	6179.3	6755.8	6971.3	7269.2
57.5°	8441.4	8447.4	8566.0	8724.7	8740.5	7415.7	7373.3	7059.7	7714.8	7868.6	8051.5
60°	8718.6	8746.5	8997.1	9437.9	9630.5	8397.7	8374.8	8055.1	8690.8	8762.2	8728.3
62.5°	8319.0	8488.5	9120.7	9995.0	10470.9	9486.4	9475.5	9175.2	9717.6	9659.5	9368.9
65°	6733.9	7020.9	8132.6	10371.6	11295.5	10702.1	10717.9	10398.2	10772.3	10583.4	9889.6
67.5°	4710.5	5013.2	6328.2	10401.8	12217.0	12129.8	12220.7	11719.3	11892.5	11468.6	10013.1
70°	3257.3	3413.6	4269.7	9750.3	12935.1	14096.3	14094.0	13341.9	13006.5	11871.9	9383.5
72.5°	2190.5	2271.7	2773.0	7735.4	12407.1	15264.9	15194.7	14582.0	13381.9	11102.9	7666.4
75°	923.9	983.3	1283.6	4347.2	9815.7	13965.6	13775.5	12886.6	11890.1	8742.8	4783.2
77.5°	293.0	318.5	506.1	1556.1	5406.8	10497.5	10296.4	8047.8	7969.1	4386.0	1748.5
80°	139.3	162.3	284.5	624.8	2127.6	5709.5	5681.7	3650.9	3428.1	1184.3	351.2
82.5°	60.6	71.4	157.4	334.3	951.8	2036.8	2078.0	1242.4	1028.1	449.3	107.7
85°	19.4	25.4	72.7	153.8	402.0	506.1	500.1	295.5	414.1	244.6	37.5
87.5°	0.0	0.0	24.2	35.2	41.2	29.1	32.7	25.4	115.0	67.9	13.3
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°	1943.5	1943.5	1943.5	1943.5	1943.5	1943.5	1943.5	1943.5	1943.5	1943.5	1943.5
2.5°	1953.2	1933.9	1899.9	1868.5	1840.6	1812.7	1795.8	1771.6	1769.2	1769.2	1775.2
5°	1966.6	1935.1	1874.5	1810.4	1736.5	1666.2	1596.0	1528.2	1506.3	1490.7	1497.9
7.5°	2005.3	1955.6	1860.0	1737.7	1597.3	1443.4	1335.7	1219.4	1174.5	1150.4	1154.0
10°	2061.0	1993.2	1847.9	1633.5	1405.9	1196.4	1042.6	916.7	868.3	847.7	847.7
12.5°	2122.8	2039.2	1826.0	1504.0	1196.4	945.8	795.6	737.5	730.2	730.2	730.2
15°	2196.6	2094.9	1788.5	1351.4	977.2	748.4	695.1	697.5	704.8	709.6	709.6
17.5°	2272.9	2154.2	1729.2	1180.7	783.5	673.3	674.4	678.1	684.2	689.0	689.0
20°	2355.2	2213.6	1650.5	999.0	672.1	651.5	655.1	658.8	663.6	666.0	667.2
22.5°	2443.6	2269.2	1557.3	821.0	634.5	633.3	634.5	638.2	644.2	644.2	646.7
25°	2538.1	2331.1	1450.7	691.5	615.1	615.1	617.6	620.0	624.8	624.8	626.1
27.5°	2635.0	2387.9	1338.0	623.6	598.2	597.0	597.0	600.6	603.0	604.2	605.5
30°	2741.6	2454.6	1225.5	609.1	584.9	578.8	575.2	577.6	580.0	581.3	583.6
32.5°	2850.5	2518.7	1124.9	615.1	571.5	560.7	548.6	546.1	546.1	550.9	554.6
35°	2971.6	2588.9	1047.4	635.7	564.3	534.0	514.7	503.8	504.9	512.2	515.9
37.5°	3116.9	2673.7	990.6	653.8	559.4	503.8	472.2	458.9	450.5	458.9	456.5
40°	3307.1	2798.5	949.4	668.4	553.4	468.6	426.2	404.5	388.7	393.6	391.1
42.5°	3586.8	2994.6	933.7	669.6	540.1	427.4	379.0	349.9	327.0	328.2	323.3
45°	3979.0	3304.6	1014.7	653.8	511.0	382.6	329.3	290.6	276.1	272.4	267.6
47.5°	4516.8	3756.3	1202.4	621.3	468.6	339.1	281.0	248.3	237.4	231.2	227.7
50°	5237.2	4336.4	1410.7	584.9	426.2	297.9	241.0	220.4	213.1	207.0	205.8
52.5°	6072.8	4924.8	1581.5	548.6	383.9	261.6	215.6	203.5	197.4	192.5	191.4
55°	6839.3	5330.5	1571.7	509.8	342.7	232.5	197.4	190.1	182.9	178.0	175.6
57.5°	7316.3	5387.4	1295.7	467.4	295.5	209.5	180.4	175.6	167.1	161.0	159.8
60°	7535.6	5062.9	908.2	411.7	248.3	187.7	162.3	159.8	148.9	140.4	138.1
62.5°	7575.6	4459.9	605.5	342.7	207.0	167.1	144.1	140.4	126.0	111.4	104.1
65°	7413.3	3597.6	419.0	267.6	176.8	145.3	123.5	116.2	100.6	86.0	81.2
67.5°	6899.9	2526.0	291.8	192.5	150.2	115.0	98.1	95.6	83.5	71.4	67.9
70°	5958.9	1439.8	195.0	144.1	118.7	78.7	77.5	79.9	67.9	58.1	53.3
72.5°	4568.8	658.8	121.1	105.4	81.2	53.3	61.8	62.9	52.1	43.6	38.7
75°	2689.5	282.2	76.3	67.9	41.2	35.2	44.8	46.0	35.2	27.9	24.2
77.5°	915.4	106.6	48.5	40.0	20.6	19.4	29.1	29.1	19.4	10.9	8.5
80°	208.3	40.0	24.2	15.8	9.7	8.5	9.7	8.5	4.8	1.2	0.0
82.5°	59.3	15.8	9.7	6.0	3.6	3.6	1.2	0.0	0.0	0.0	0.0
85°	16.9	7.3	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.3	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)