

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: P964034

Luminaire Tested: **NAV-SB3B-735-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964034
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3B-735-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17166.7 lumens
Efficiency: N/A
Efficacy: 157.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - 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



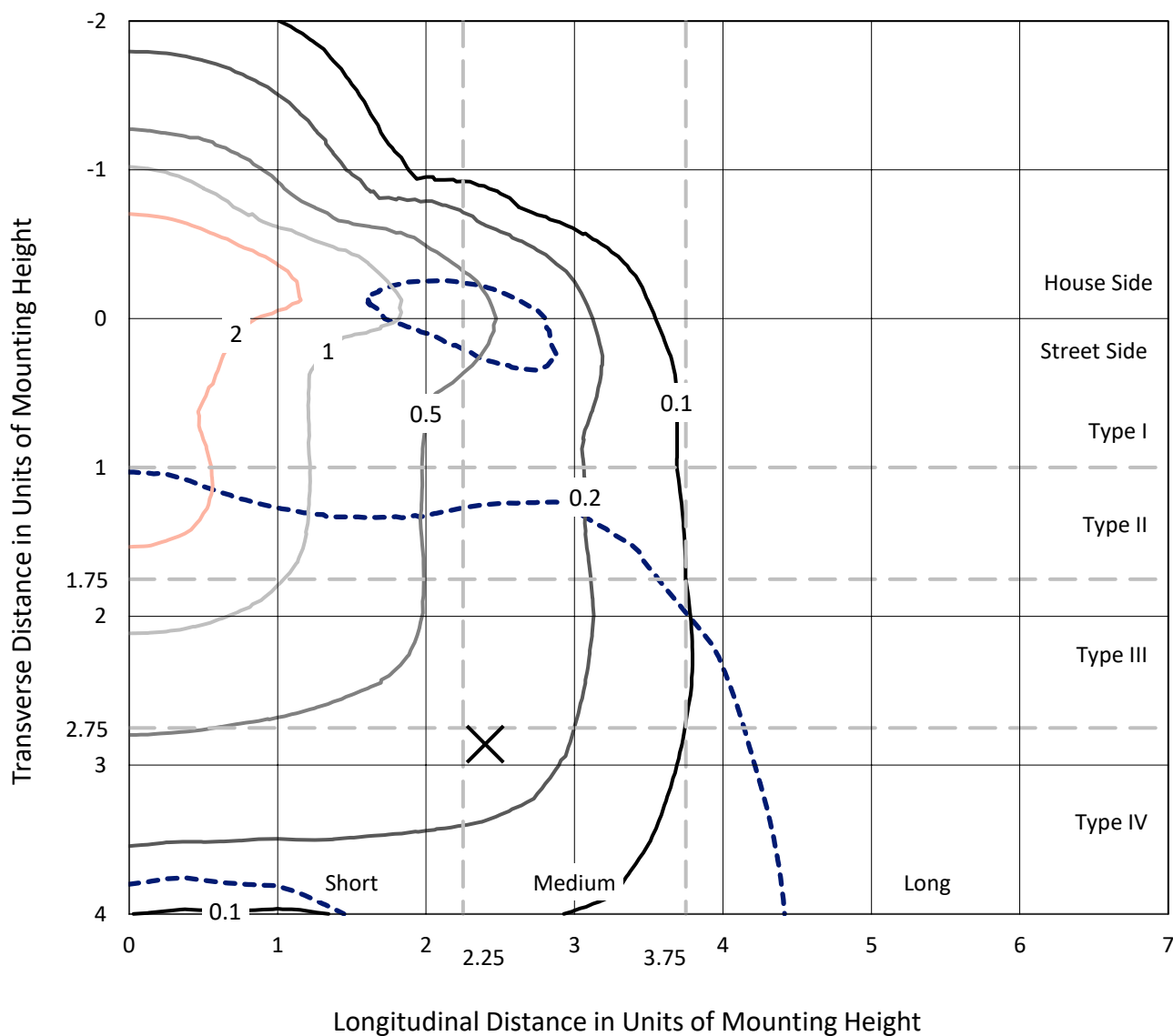
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

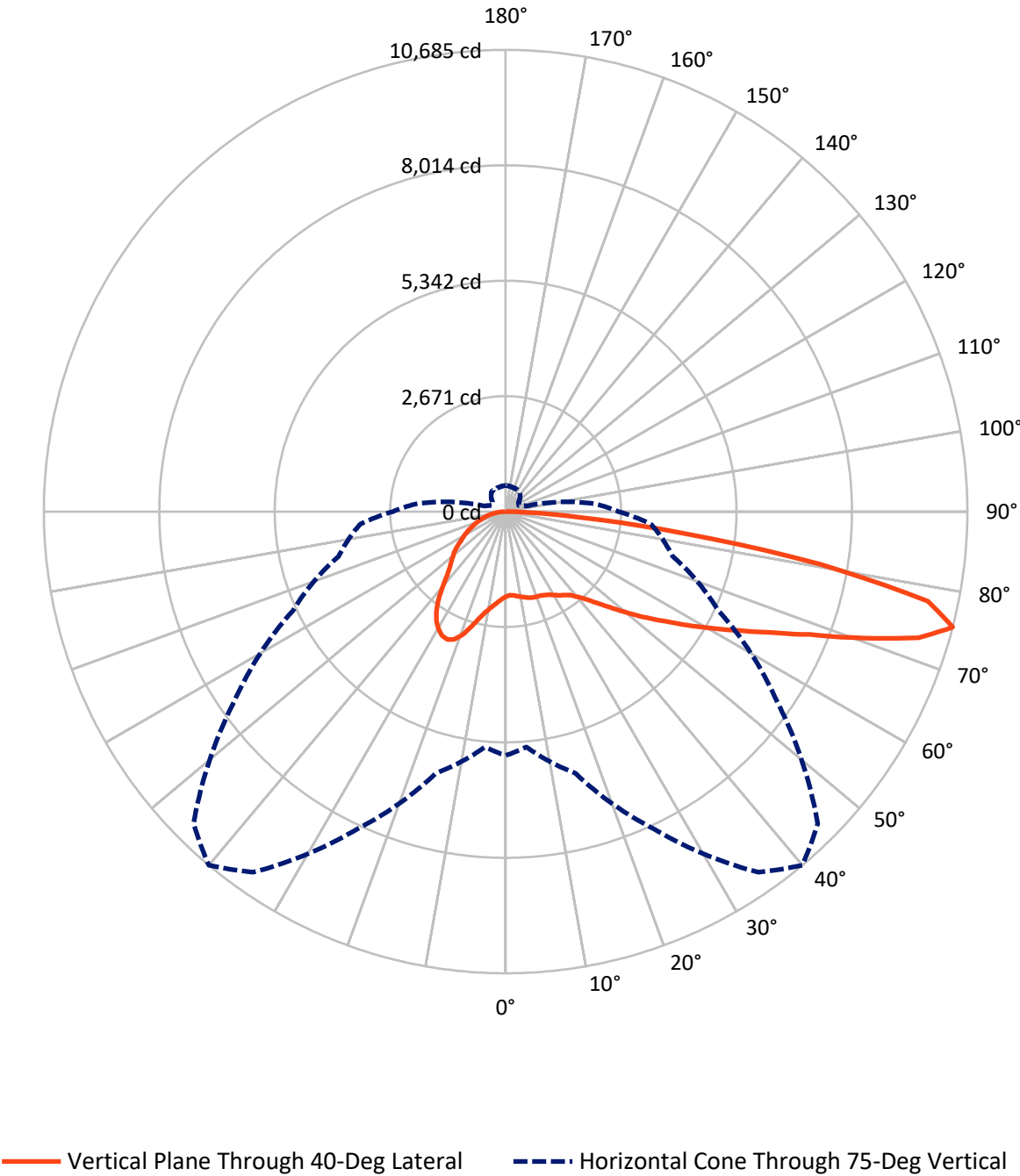
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5318.8	0.0	5318.8
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	11847.9	0.0	11847.9
	% Fixture	69.0	0.0	69.0
Total	Lumens	17166.7	0.0	17166.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.0	1.1
10°-20°	657.9	3.8
20°-30°	1201.3	7.0
30°-40°	1703.7	9.9
40°-50°	2300.5	13.4
50°-60°	3094.8	18.0
60°-70°	3928.0	22.9
70°-80°	3564.9	20.8
80°-90°	519.6	3.0
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°	17166.7	100.0
0°-180°	17166.7	100.0

Coefficient of Utilization



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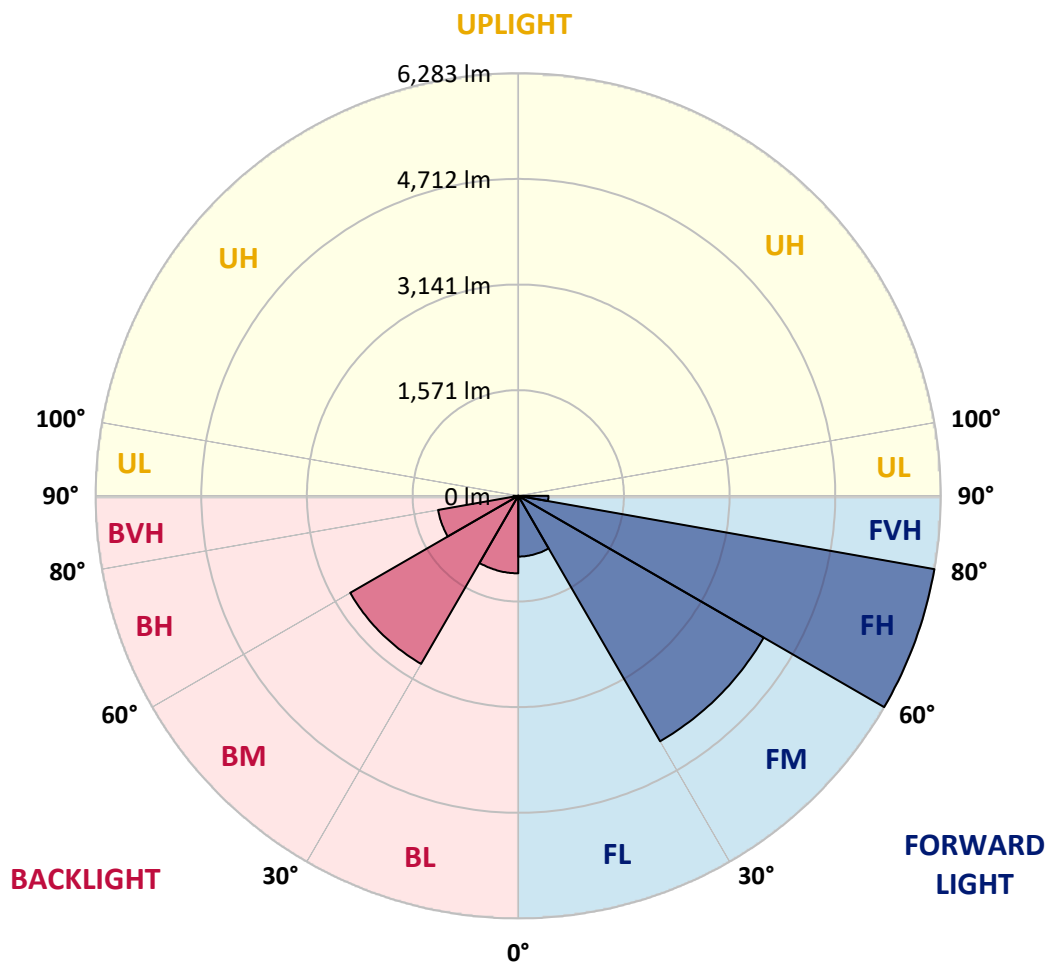
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	903.0	5.3			
FM	(30°-60°)	4214.0	24.5			
FH	(60°-80°)	6282.7	36.6			G3/7500
FVH	(80°-90°)	448.1	2.6			G3/500
BL	(0°-30°)	1152.1	6.7	B3/2500		
BM	(30°-60°)	2885.0	16.8	B3/5000		
BH	(60°-80°)	1210.2	7.0	B3/2500		G3/2500
BVH	(80°-90°)	71.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1963.1	1963.1	1963.1	1963.1	1963.1	1963.1	1963.1	1963.1	1963.1	1963.1	1963.1
2.5°	1932.9	1943.9	1941.1	1937.6	1937.6	1938.5	1937.6	1943.9	1950.3	1956.6	1966.7
5°	1953.0	1963.9	1958.5	1954.0	1950.3	1949.3	1946.7	1945.8	1949.3	1957.5	1971.3
7.5°	1992.2	2003.1	1994.9	1986.8	1979.4	1975.8	1972.1	1966.7	1963.9	1968.5	1987.6
10°	2035.9	2046.8	2036.8	2022.2	2010.3	2005.8	2002.2	1996.7	1993.1	1995.8	2016.8
12.5°	2079.6	2090.5	2076.9	2056.9	2041.3	2038.6	2034.0	2032.3	2031.3	2030.4	2051.3
15°	2120.5	2129.6	2112.3	2088.6	2072.3	2067.7	2063.2	2065.9	2070.5	2075.9	2099.6
17.5°	2152.4	2161.5	2136.0	2105.0	2089.6	2087.8	2085.1	2094.2	2106.9	2120.5	2149.7
20°	2181.5	2190.6	2157.9	2116.0	2097.8	2097.8	2098.7	2117.9	2136.0	2156.1	2196.2
22.5°	2222.5	2229.8	2189.7	2132.4	2106.0	2107.8	2115.1	2134.3	2157.0	2184.3	2239.8
25°	2283.5	2289.0	2239.8	2163.4	2133.3	2138.8	2145.1	2154.2	2176.1	2208.0	2282.6
27.5°	2381.9	2386.4	2321.7	2218.0	2172.5	2181.5	2190.6	2184.3	2194.3	2221.6	2317.2
30°	2520.3	2523.0	2441.0	2303.6	2238.9	2243.4	2245.3	2218.9	2199.8	2221.6	2341.8
32.5°	2684.2	2683.2	2585.8	2407.3	2314.4	2309.9	2294.5	2242.6	2197.9	2217.1	2363.6
35°	2938.2	2928.1	2802.6	2553.1	2400.0	2371.8	2335.5	2268.9	2207.0	2212.5	2382.8
37.5°	3358.8	3327.9	3153.9	2791.6	2527.5	2455.6	2401.9	2311.8	2227.1	2210.7	2405.6
40°	3833.2	3794.0	3602.9	3118.5	2718.7	2603.1	2516.6	2372.8	2259.8	2218.9	2439.2
42.5°	4395.9	4340.4	4134.5	3503.6	2960.9	2793.4	2663.3	2450.2	2308.1	2245.3	2484.7
45°	5087.0	5013.2	4721.9	3937.9	3266.0	3042.9	2869.0	2567.6	2381.9	2296.3	2553.1
47.5°	5785.3	5803.5	5389.2	4435.1	3632.0	3350.6	3126.7	2744.2	2489.3	2378.2	2663.3
50°	6527.4	6540.1	6053.0	4985.9	4047.2	3698.4	3416.2	2941.9	2638.7	2494.7	2828.0
52.5°	7106.4	7108.3	6655.7	5562.3	4479.7	4080.8	3728.5	3167.7	2811.6	2649.5	3047.4
55°	7468.9	7464.3	7078.2	6107.7	4976.8	4482.4	4074.5	3424.4	3022.8	2831.7	3323.4
57.5°	7732.0	7718.2	7369.5	6576.5	5506.7	4956.8	4466.0	3715.7	3272.3	3048.4	3686.6
60°	7832.1	7823.9	7567.2	6981.7	6063.9	5481.2	4917.6	4041.7	3555.5	3304.2	4153.7
62.5°	7870.4	7885.8	7761.1	7374.2	6660.3	6062.1	5413.8	4431.4	3874.2	3593.8	4646.3
65°	8005.1	8033.3	8007.8	7887.7	7334.1	6742.2	6072.1	4894.9	4222.0	3904.2	5160.7
67.5°	8271.9	8300.1	8311.0	8502.3	8157.2	7589.9	6893.4	5472.1	4629.0	4226.5	5547.7
70°	8265.5	8257.3	8450.3	8991.2	9187.8	8763.5	8000.5	6182.3	5114.2	4494.2	5596.8
72.5°	7523.5	7457.9	7914.0	8985.7	10045.5	9989.0	9352.6	7098.2	5533.1	4527.0	4856.6
75°	5644.2	5469.4	6275.2	8098.0	10188.5	10684.7	10212.2	7666.4	5433.8	3999.9	3379.7
77.5°	2413.8	2238.0	3187.6	5994.7	9118.6	9988.2	9423.6	6688.5	4337.6	2645.0	1659.9
80°	631.9	631.0	963.3	2717.8	6201.5	7375.9	6470.9	4319.5	2478.3	945.0	458.0
82.5°	261.3	254.9	354.1	1057.1	3030.1	4139.2	3378.0	1926.6	895.0	255.8	152.0
85°	97.4	96.6	172.1	365.1	1069.0	1707.1	1235.5	492.6	223.0	124.7	68.3
87.5°	27.3	26.4	37.3	126.6	260.5	395.1	211.3	81.1	62.8	49.2	20.0
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°	1963.1	1963.1	1963.1	1963.1	1963.1	1963.1	1963.1	1963.1	1963.1	1963.1	1963.1
2.5°	1969.4	1973.9	1982.1	1988.5	1996.7	2005.8	2018.5	2026.7	2034.9	2040.5	2036.8
5°	1977.6	1987.6	2008.6	2029.5	2054.1	2076.9	2103.3	2122.4	2137.8	2142.4	2144.2
7.5°	1995.8	2012.2	2047.7	2083.2	2122.4	2159.7	2197.9	2230.7	2257.2	2267.1	2268.0
10°	2027.7	2049.5	2099.6	2149.7	2201.6	2259.0	2308.1	2355.4	2392.8	2408.2	2409.2
12.5°	2067.7	2095.1	2160.6	2229.8	2301.7	2381.0	2444.7	2502.9	2549.4	2570.3	2570.3
15°	2119.6	2155.2	2238.9	2331.8	2437.4	2547.5	2628.6	2693.3	2745.2	2770.7	2768.8
17.5°	2176.1	2223.4	2329.0	2469.2	2620.4	2765.1	2859.9	2907.2	2960.9	2985.5	2984.6
20°	2230.7	2289.0	2440.1	2644.1	2845.3	2999.1	3075.6	3088.4	3092.0	3094.8	3102.1
22.5°	2287.2	2365.5	2579.4	2864.5	3080.2	3186.7	3197.7	3143.1	3066.6	3031.0	3041.1
25°	2349.1	2452.9	2761.6	3107.5	3282.4	3295.1	3211.3	3078.4	2933.7	2867.1	2877.2
27.5°	2409.2	2554.0	2980.1	3339.8	3428.0	3316.1	3135.8	2947.3	2772.4	2702.3	2710.5
30°	2469.2	2669.6	3221.4	3542.7	3494.5	3264.1	3016.5	2806.1	2630.5	2556.7	2564.9
32.5°	2530.3	2804.3	3499.0	3689.4	3482.6	3153.9	2868.1	2647.8	2492.9	2415.5	2425.6
35°	2599.5	2970.0	3762.2	3769.4	3403.4	2991.9	2672.3	2458.4	2323.6	2261.7	2275.3
37.5°	2689.6	3180.4	3994.3	3789.5	3265.0	2754.3	2429.2	2234.4	2123.3	2095.1	2115.1
40°	2801.6	3433.4	4172.0	3757.6	3060.1	2465.6	2163.4	2007.7	1944.8	1951.2	1973.0
42.5°	2947.3	3716.6	4296.6	3675.6	2775.2	2167.9	1930.3	1861.1	1891.1	1916.6	1940.2
45°	3136.7	4010.7	4374.1	3536.4	2452.9	1915.7	1792.7	1809.1	1831.9	1834.6	1852.9
47.5°	3378.8	4308.5	4425.0	3326.0	2124.2	1738.1	1705.4	1709.0	1704.5	1685.3	1699.9
50°	3681.2	4598.0	4470.5	3047.4	1844.7	1627.1	1583.3	1570.6	1507.8	1445.9	1454.1
52.5°	4025.3	4863.9	4489.7	2701.5	1627.1	1534.2	1463.2	1383.0	1265.6	1246.5	1252.9
55°	4407.7	5109.7	4440.5	2276.2	1444.0	1414.9	1307.5	1210.9	1198.2	1181.8	1184.6
57.5°	4864.8	5374.7	4340.4	1801.8	1256.4	1275.6	1170.9	1181.8	1159.1	1133.5	1129.0
60°	5364.6	5648.8	4164.6	1369.4	1062.5	1101.7	1135.4	1134.5	1128.1	1107.2	1099.9
62.5°	5814.4	5829.0	3818.6	1048.9	892.3	967.0	1058.9	1058.0	1052.6	1040.7	1036.2
65°	6082.1	5801.7	3241.4	825.8	752.0	855.9	955.1	962.4	963.3	962.4	962.4
67.5°	6034.8	5482.1	2449.2	657.3	636.4	742.9	852.2	862.2	869.5	871.4	873.2
70°	5499.4	4780.1	1597.1	524.5	533.5	643.7	754.8	764.9	771.2	778.5	782.1
72.5°	4286.7	3514.5	914.1	424.2	443.4	558.1	658.3	670.1	673.7	687.5	692.9
75°	2612.2	2066.8	493.5	334.2	364.2	477.1	562.7	576.4	582.7	599.1	601.0
77.5°	1241.9	895.0	281.4	260.5	293.2	389.7	475.3	490.8	473.4	482.6	475.3
80°	419.7	332.3	177.5	198.4	224.0	304.1	380.6	396.1	359.7	357.8	354.1
82.5°	146.6	134.8	112.9	132.0	144.7	217.6	287.7	307.7	267.7	266.8	254.0
85°	57.4	54.6	62.8	72.0	86.5	133.9	189.4	199.4	164.8	132.9	131.1
87.5°	11.8	12.7	15.5	16.4	26.4	46.4	68.3	83.7	66.4	56.5	51.9
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)