

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: P961955

Luminaire Tested: **NAV-SB2B-740-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961955
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2B-740-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11935.1 lumens
Efficiency: N/A
Efficacy: 161.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 73.9
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



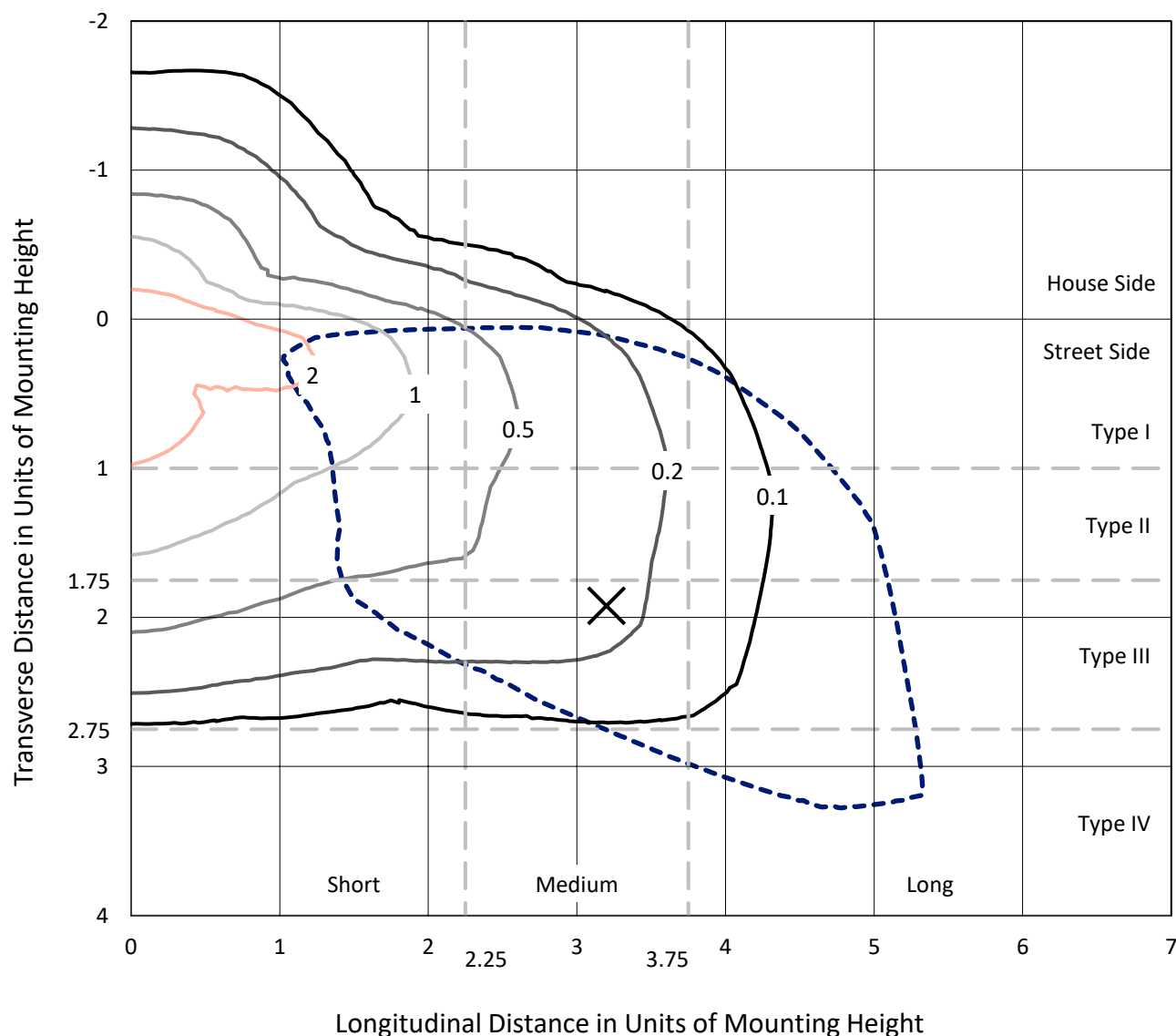
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

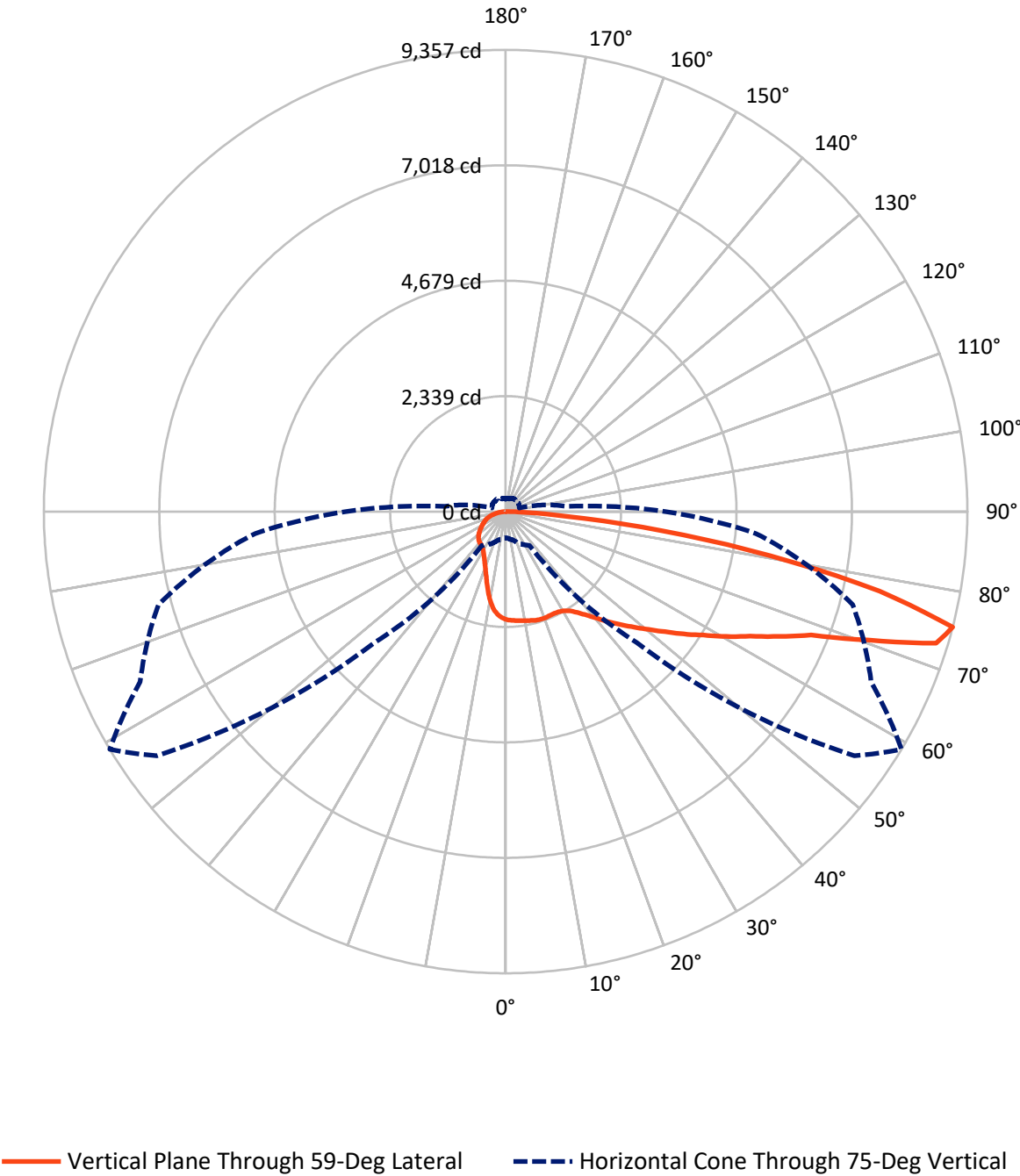
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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	2238.5	0.0	2238.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	9696.6	0.0	9696.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	11935.1	0.0	11935.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.4	1.6
10°-20°	502.1	4.2
20°-30°	762.6	6.4
30°-40°	1133.6	9.5
40°-50°	1685.9	14.1
50°-60°	2288.4	19.2
60°-70°	2793.8	23.4
70°-80°	2192.5	18.4
80°-90°	379.8	3.2
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°	11935.1	100.0
0°-180°	11935.1	100.0

Coefficient of Utilization



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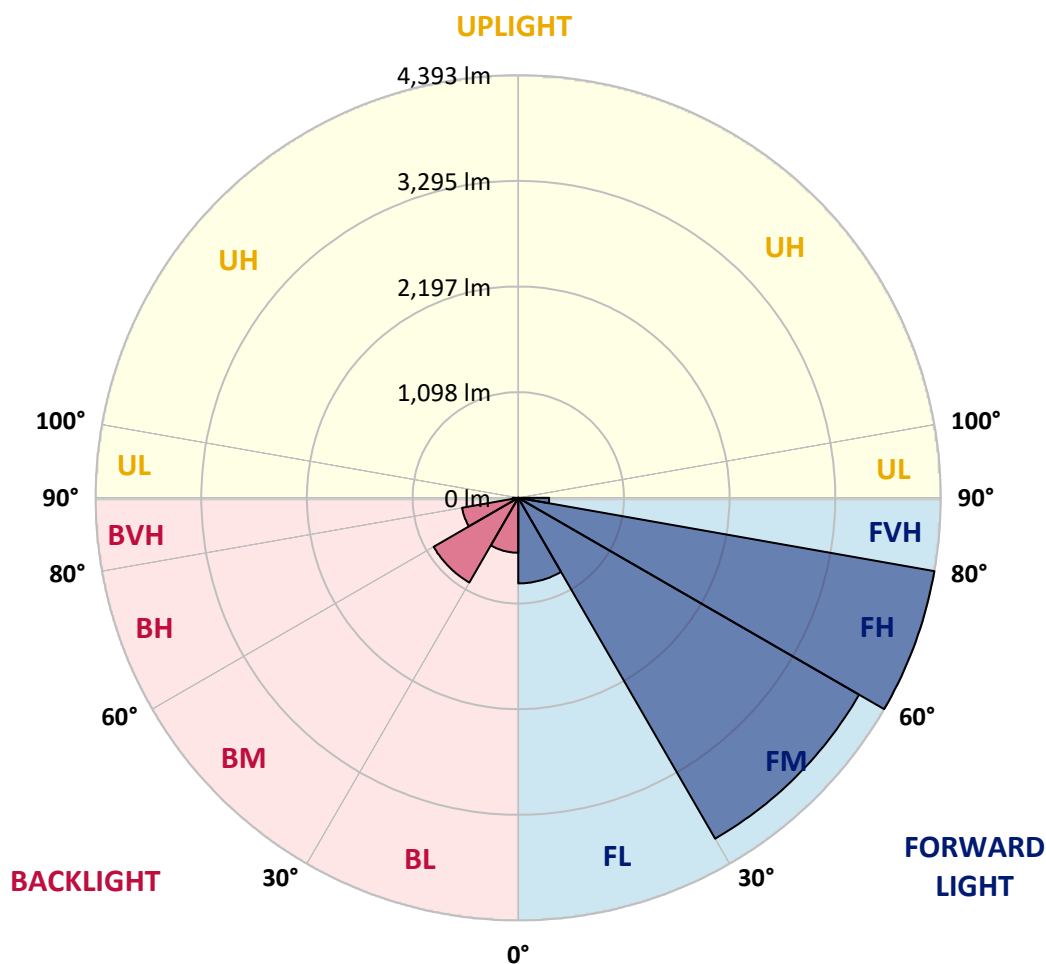
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	889.9	7.5			
FM	(30°-60°)	4091.9	34.3			
FH	(60°-80°)	4393.2	36.8			G2/5000
FVH	(80°-90°)	321.7	2.7			G3/500
BL	(0°-30°)	571.2	4.8	B2/1000		
BM	(30°-60°)	1016.1	8.5	B2/2500		
BH	(60°-80°)	593.1	5.0	B2/1000		G2/1000
BVH	(80°-90°)	58.1	0.5			G1/100
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2190.6	2190.6	2190.6	2190.6	2190.6	2190.6	2190.6	2190.6	2190.6	2190.6	2190.6
2.5°	2209.3	2201.6	2209.3	2206.1	2204.8	2202.2	2202.8	2207.3	2204.8	2208.0	2197.1
5°	2194.5	2190.0	2197.7	2195.8	2204.2	2205.4	2213.8	2218.9	2222.1	2222.7	2214.4
7.5°	2170.1	2165.6	2176.5	2185.5	2203.5	2208.7	2226.0	2234.3	2238.8	2246.5	2234.3
10°	2080.9	2078.9	2105.9	2139.9	2182.3	2208.7	2235.0	2249.1	2256.1	2276.7	2262.6
12.5°	1922.9	1925.5	1960.8	2026.3	2111.1	2195.8	2245.3	2265.8	2276.7	2302.4	2296.0
15°	1772.0	1771.4	1809.9	1880.0	1998.6	2139.3	2250.4	2285.6	2304.3	2342.2	2337.0
17.5°	1684.7	1682.1	1709.1	1762.4	1872.9	2052.7	2237.6	2296.6	2336.4	2383.9	2379.4
20°	1668.7	1663.6	1677.6	1704.0	1782.3	1957.6	2204.2	2296.6	2362.1	2423.7	2421.2
22.5°	1727.1	1718.7	1713.0	1709.8	1744.4	1879.2	2166.2	2288.9	2399.9	2480.9	2476.4
25°	1844.6	1831.8	1802.3	1773.4	1763.1	1844.0	2132.9	2287.0	2456.5	2557.9	2541.2
27.5°	2034.6	2018.6	1958.9	1889.6	1827.3	1861.9	2118.1	2298.6	2518.7	2639.5	2606.1
30°	2270.3	2253.0	2177.8	2071.2	1959.5	1928.7	2136.7	2332.6	2598.4	2747.9	2682.4
32.5°	2481.5	2462.3	2398.1	2289.5	2138.7	2044.3	2195.8	2397.4	2723.5	2898.8	2797.4
35°	2669.0	2646.5	2588.7	2488.6	2358.2	2206.7	2302.4	2512.3	2901.4	3144.1	2953.4
37.5°	2852.6	2826.3	2763.4	2657.4	2566.3	2423.1	2449.4	2660.0	3137.7	3442.1	3160.2
40°	3058.1	3020.2	2943.8	2839.1	2750.5	2676.7	2642.7	2841.1	3377.8	3774.6	3418.3
42.5°	3257.1	3221.2	3129.9	3040.8	2929.7	2908.4	2866.7	3053.0	3640.4	4139.9	3680.2
45°	3471.6	3428.5	3318.1	3205.1	3135.1	3062.6	3083.7	3264.8	3897.9	4512.3	3955.0
47.5°	3672.5	3624.4	3494.0	3368.2	3329.6	3192.3	3282.8	3497.9	4165.6	4889.9	4227.2
50°	3781.0	3733.5	3625.0	3511.3	3481.2	3352.2	3498.5	3754.1	4446.1	5266.0	4488.6
52.5°	3871.5	3820.2	3678.3	3615.4	3606.4	3526.1	3764.3	4046.8	4726.8	5598.7	4740.8
55°	3967.9	3910.7	3729.7	3673.2	3714.2	3721.3	4079.6	4378.8	5023.3	5922.9	4979.0
57.5°	4078.9	4006.4	3779.1	3722.0	3819.6	3949.8	4441.6	4722.9	5314.8	6223.4	5190.9
60°	4183.5	4110.4	3874.1	3799.7	3933.1	4215.0	4857.1	5139.6	5644.9	6491.1	5391.3
62.5°	4204.1	4143.8	3949.8	3949.2	4087.3	4524.5	5348.9	5560.1	5933.1	6755.6	5571.1
65°	3848.5	3810.5	3695.6	3943.5	4308.2	4970.1	5896.5	6098.1	6299.8	6986.7	5728.9
67.5°	2929.0	2934.2	2925.8	3404.1	4129.6	5610.2	6689.5	6674.1	6752.4	7246.1	5910.7
70°	1339.3	1369.5	1566.0	2349.9	3308.5	5684.0	8000.5	7800.9	7320.7	7581.9	6068.0
72.5°	723.5	746.7	827.0	1138.4	1989.0	5053.6	8980.3	9122.2	8076.3	7807.9	5895.3
75°	530.9	543.8	599.6	723.5	835.3	3756.0	8629.1	9357.2	8170.7	7280.8	5090.8
77.5°	397.4	403.2	448.7	573.4	427.6	1980.1	6895.0	7749.5	6994.5	5981.9	3760.4
80°	288.2	294.7	328.7	430.2	299.8	724.3	4734.5	5439.4	4790.3	3813.1	1874.1
82.5°	199.1	201.6	216.4	292.7	209.3	281.3	2686.3	3189.7	2674.1	1338.0	505.9
85°	120.0	123.3	129.7	170.8	118.8	133.6	1159.6	1199.4	799.4	319.7	157.3
87.5°	49.4	52.7	57.8	72.0	46.8	37.2	191.4	240.2	149.5	93.8	48.8
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°	2190.6	2190.6	2190.6	2190.6	2190.6	2190.6	2190.6	2190.6	2190.6	2190.6	2190.6
2.5°	2193.9	2189.4	2177.2	2160.5	2145.1	2125.8	2117.4	2110.4	2104.0	2091.8	2086.0
5°	2207.3	2195.1	2162.4	2120.0	2071.8	2019.2	1967.9	1932.5	1902.4	1880.0	1861.3
7.5°	2227.9	2204.8	2145.1	2058.4	1948.0	1835.0	1732.9	1660.3	1605.8	1585.9	1551.1
10°	2249.1	2221.5	2117.4	1964.6	1774.0	1600.0	1464.5	1390.0	1346.3	1332.3	1310.5
12.5°	2274.2	2233.7	2074.5	1834.3	1579.4	1388.8	1270.6	1226.9	1204.5	1196.8	1198.7
15°	2310.8	2243.9	2009.6	1671.3	1393.9	1234.6	1158.2	1128.1	1116.5	1115.9	1118.5
17.5°	2338.3	2245.9	1908.8	1496.6	1251.3	1141.5	1078.6	1067.1	1074.8	1086.3	1090.8
20°	2369.2	2228.6	1776.5	1337.4	1151.2	1060.1	1033.7	1041.4	1060.1	1076.7	1082.5
22.5°	2391.0	2197.1	1616.6	1213.5	1064.5	1013.1	1011.9	1027.9	1038.2	1046.5	1051.0
25°	2410.3	2143.8	1447.2	1109.5	993.2	984.9	999.1	993.8	986.9	993.8	998.4
27.5°	2424.3	2059.6	1295.6	1018.2	943.2	965.7	957.2	945.8	945.0	948.9	955.4
30°	2419.9	1947.3	1171.1	931.6	907.8	929.7	909.8	907.8	905.9	907.8	914.9
32.5°	2419.9	1819.6	1075.4	871.9	885.4	877.0	875.1	870.6	862.9	862.2	870.6
35°	2433.4	1691.8	993.2	839.8	866.7	846.9	848.2	837.2	821.1	813.4	821.1
37.5°	2460.9	1589.1	911.7	824.4	834.0	833.3	828.2	809.6	781.4	757.0	765.4
40°	2527.8	1558.9	855.9	817.3	818.6	826.4	812.8	776.8	712.7	672.9	678.0
42.5°	2632.4	1609.7	843.7	800.0	808.3	816.0	789.8	706.2	660.7	636.9	636.9
45°	2765.2	1698.2	870.0	774.9	783.9	797.4	719.1	679.3	658.8	659.4	662.6
47.5°	2933.5	1791.3	918.8	753.2	748.7	756.3	672.2	647.8	619.6	626.7	644.6
50°	3128.1	1885.7	965.0	723.5	709.5	684.4	642.1	618.9	583.0	566.3	570.8
52.5°	3338.6	1976.8	983.6	687.7	667.1	638.2	621.5	593.3	549.6	522.0	521.3
55°	3538.3	2059.6	963.1	644.6	624.7	602.3	599.6	582.3	535.5	496.9	496.9
57.5°	3727.1	2129.0	911.7	601.0	581.7	568.3	585.6	577.2	518.1	468.7	466.2
60°	3886.9	2176.5	837.2	556.7	543.1	536.1	562.4	559.9	493.7	438.5	436.5
62.5°	4014.1	2195.1	755.0	514.2	511.1	498.3	530.3	530.3	462.9	409.0	407.0
65°	4113.6	2177.2	671.6	472.5	479.0	459.7	491.2	487.3	430.2	382.6	380.1
67.5°	4201.6	2118.1	579.1	431.4	446.2	421.8	450.1	441.1	394.2	356.3	353.7
70°	4240.7	1980.7	473.9	390.3	408.4	384.6	409.0	392.3	353.7	328.1	323.0
72.5°	3926.2	1646.3	373.0	347.4	362.7	343.5	364.7	345.4	310.1	298.6	288.9
75°	3248.1	1235.3	287.0	300.4	312.0	297.2	311.4	297.2	265.2	273.5	249.8
77.5°	2358.8	834.0	219.6	251.0	256.1	248.5	260.7	244.7	215.8	213.8	204.2
80°	1173.0	488.6	172.1	198.4	196.5	191.4	205.4	197.7	173.3	183.6	181.7
82.5°	339.7	209.3	125.2	139.3	135.5	136.7	147.0	150.9	226.0	224.1	229.2
85°	106.6	82.2	75.1	77.7	73.8	75.7	86.7	172.1	159.2	93.1	100.8
87.5°	27.6	28.3	18.7	19.9	20.5	24.4	27.6	104.7	50.1	32.7	34.6
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)