

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: P962495

Luminaire Tested: **NAV-SB2C-740-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962495
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2C-740-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16092.5 lumens
Efficiency: N/A
Efficacy: 159.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

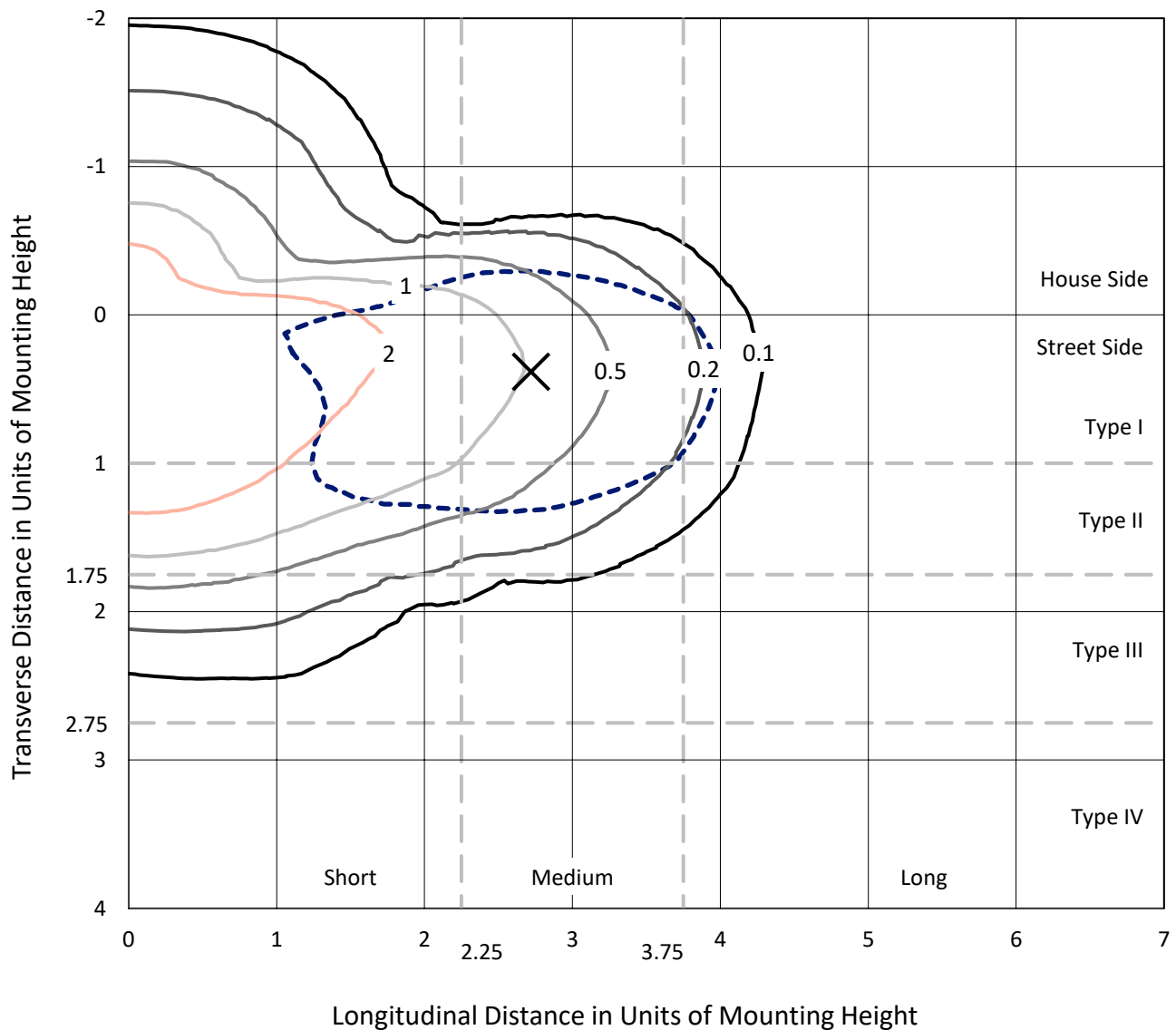
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

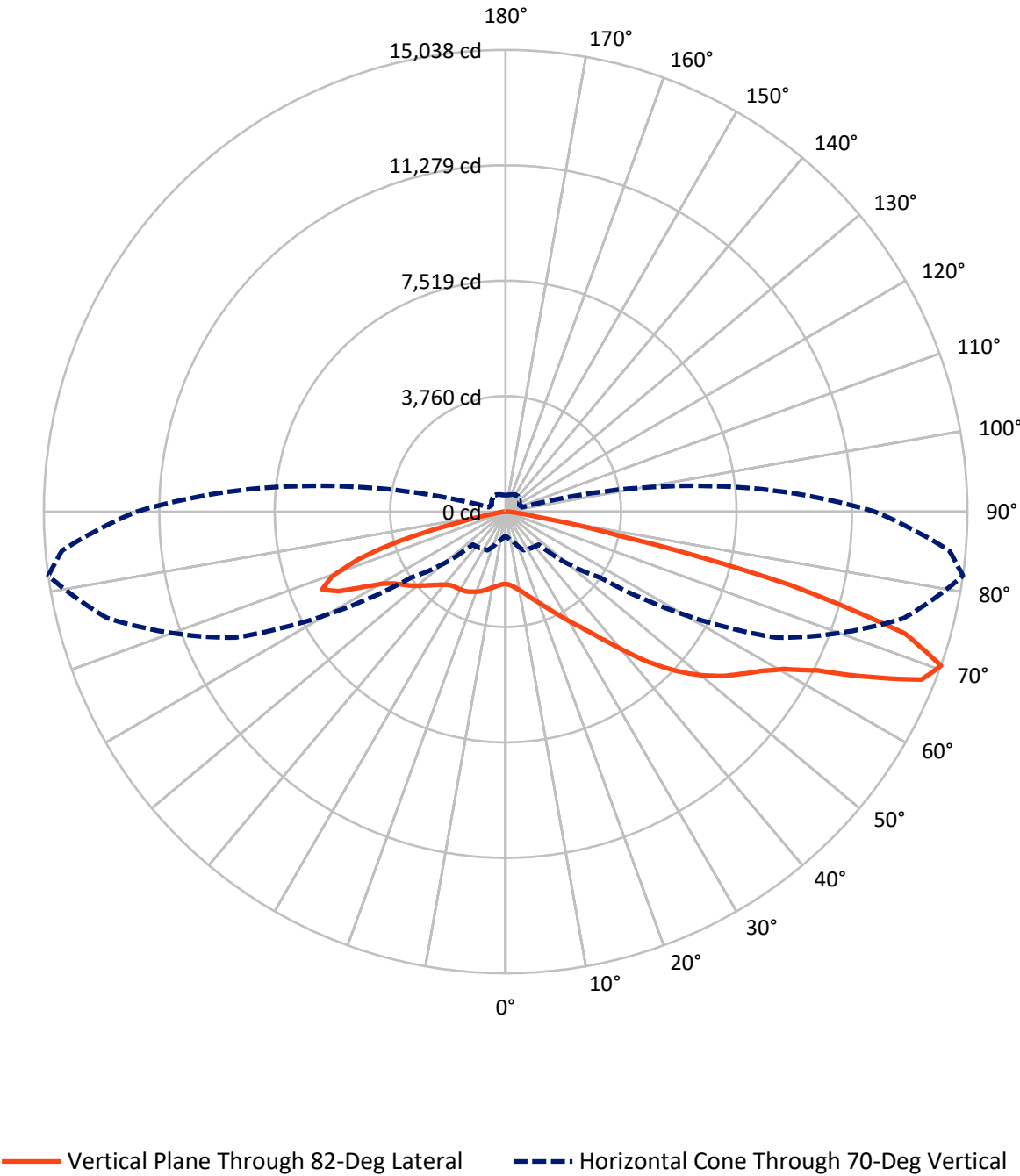
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3967.2	0.0	3967.2
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	12125.3	0.0	12125.3
	% Fixture	75.3	0.0	75.3
Total	Lumens	16092.5	0.0	16092.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.8	1.4
10°-20°	640.0	4.0
20°-30°	1070.7	6.7
30°-40°	1672.7	10.4
40°-50°	2663.9	16.6
50°-60°	3707.2	23.0
60°-70°	3877.9	24.1
70°-80°	2026.8	12.6
80°-90°	210.5	1.3
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°	16092.5	100.0
0°-180°	16092.5	100.0

Coefficient of Utilization



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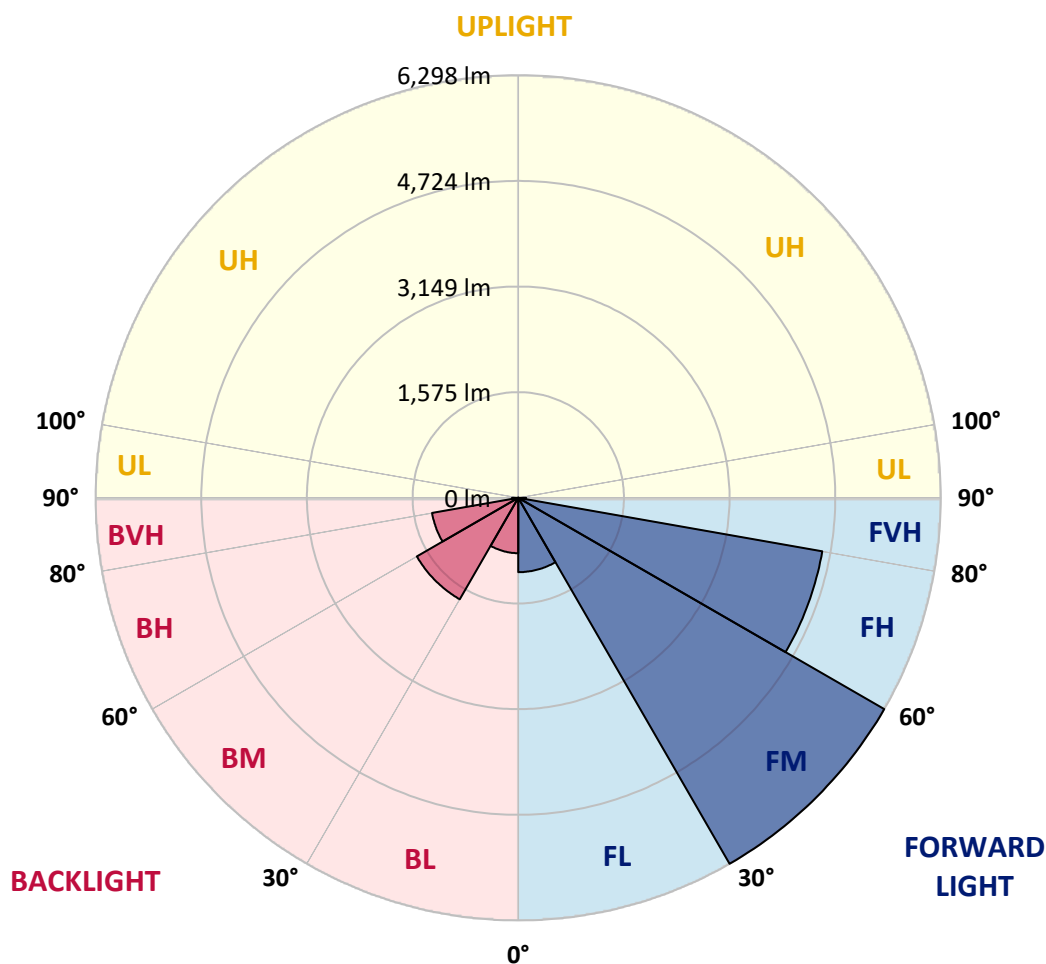
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1108.1	6.9			
FM	(30°-60°)	6298.4	39.1			
FH	(60°-80°)	4600.9	28.6			G2/5000
FVH	(80°-90°)	117.8	0.7			G2/225
BL	(0°-30°)	825.3	5.1	B2/1000		
BM	(30°-60°)	1745.4	10.8	B2/2500		
BH	(60°-80°)	1303.8	8.1	B3/2500		G3/2500
BVH	(80°-90°)	92.6	0.6			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2359.3	2359.3	2359.3	2359.3	2359.3	2359.3	2359.3	2359.3	2359.3	2359.3	2359.3
2.5°	2415.7	2429.4	2425.1	2420.8	2420.8	2414.9	2414.0	2405.5	2398.6	2387.5	2385.0
5°	2446.5	2461.0	2459.3	2462.7	2473.7	2476.3	2478.9	2473.7	2460.1	2446.5	2440.5
7.5°	2419.1	2435.4	2440.5	2461.0	2495.2	2525.9	2549.0	2558.3	2545.5	2525.9	2516.5
10°	2327.0	2344.9	2362.7	2411.4	2472.1	2544.7	2606.2	2642.9	2640.3	2621.5	2605.2
12.5°	2139.9	2158.6	2197.1	2291.9	2402.9	2531.0	2645.4	2722.3	2748.7	2735.1	2706.9
15°	1990.4	2006.7	2035.8	2133.0	2277.3	2472.1	2660.0	2809.4	2876.9	2869.2	2834.9
17.5°	1986.2	1993.0	2010.9	2057.1	2168.1	2379.8	2644.6	2894.8	3023.7	3022.8	2980.2
20°	2061.4	2063.9	2074.2	2083.5	2146.8	2309.8	2605.2	2965.6	3188.5	3188.5	3142.4
22.5°	2165.5	2163.8	2174.0	2165.5	2196.3	2303.9	2580.5	3028.0	3372.1	3385.8	3327.7
25°	2321.8	2313.2	2310.7	2291.1	2297.0	2359.3	2607.8	3098.9	3589.9	3618.0	3545.5
27.5°	2530.1	2516.5	2507.0	2461.8	2446.5	2473.7	2691.5	3184.3	3832.4	3881.1	3788.8
30°	2801.7	2776.9	2763.3	2684.7	2629.2	2633.4	2817.9	3297.8	4086.0	4164.6	4047.5
32.5°	3172.3	3133.8	3097.1	2968.2	2866.6	2833.3	2981.0	3455.0	4361.0	4486.4	4336.2
35°	3587.3	3556.5	3517.3	3318.3	3162.0	3085.1	3201.3	3674.4	4682.8	4881.9	4686.3
37.5°	3986.9	3960.5	3979.3	3711.1	3509.6	3397.7	3489.9	3969.0	5079.9	5373.7	5125.2
40°	4400.2	4379.7	4382.3	4126.1	3891.3	3765.7	3840.1	4338.7	5535.1	5958.6	5652.9
42.5°	4849.4	4834.0	4782.8	4555.6	4291.8	4174.8	4243.1	4765.7	6023.5	6624.7	6231.9
45°	5352.3	5342.9	5295.2	5034.7	4732.4	4600.9	4693.1	5237.0	6514.5	7251.5	6813.4
47.5°	5786.9	5794.6	5788.7	5569.2	5255.8	5062.9	5173.0	5728.9	6971.3	7840.6	7371.0
50°	5996.1	6036.3	6095.3	6026.9	5832.2	5635.9	5657.2	6203.7	7406.9	8393.1	7905.5
52.5°	5886.9	5962.8	6123.5	6232.7	6307.8	6266.8	6209.7	6675.0	7816.8	8891.8	8411.0
55°	5479.5	5586.2	5852.7	6116.6	6499.9	6798.0	6873.1	7197.7	8216.4	9330.7	8889.2
57.5°	4737.5	4910.9	5149.9	5683.6	6329.2	7055.1	7646.8	7922.6	8639.9	9799.5	9389.6
60°	3465.2	3697.5	3994.6	4788.7	5731.5	6917.5	8305.2	9036.1	9241.9	10406.6	10041.2
62.5°	2217.6	2361.1	2634.4	3382.4	4465.9	6213.0	8506.7	10427.9	10262.3	11402.3	11018.0
65°	1518.2	1610.5	1860.7	2280.8	2887.1	4624.8	7967.0	11471.5	11883.0	12980.3	12688.3
67.5°	1103.2	1173.3	1386.7	1754.8	1881.2	2736.7	6182.3	11423.6	13458.6	14606.1	14151.9
70°	804.4	853.9	1033.2	1386.7	1447.4	1522.5	3745.2	9710.7	13424.3	15038.3	14494.3
72.5°	596.0	630.2	750.6	1075.9	1171.6	1028.1	1853.8	7057.6	11535.6	13602.0	13165.6
75°	431.2	456.8	545.6	823.2	937.6	783.0	924.8	4124.4	8046.5	9568.1	9644.9
77.5°	329.6	349.2	407.3	602.9	750.6	587.5	573.8	1897.4	3815.3	3834.1	4049.3
80°	264.8	277.6	309.1	424.4	575.5	439.7	374.0	766.0	1205.7	1020.4	1070.8
82.5°	194.6	216.1	261.3	298.0	411.5	303.1	228.0	386.8	458.6	394.5	397.9
85°	111.0	125.6	158.0	213.5	263.0	185.3	130.7	171.7	213.5	175.1	156.3
87.5°	39.3	51.2	55.6	83.6	114.4	76.9	50.4	49.5	70.0	52.1	43.6
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°	2359.3	2359.3	2359.3	2359.3	2359.3	2359.3	2359.3	2359.3	2359.3	2359.3	2359.3
2.5°	2376.5	2372.2	2355.1	2332.1	2308.1	2285.0	2277.3	2261.1	2250.1	2244.0	2250.9
5°	2424.2	2410.6	2370.4	2319.3	2265.5	2207.3	2166.3	2128.8	2101.5	2075.8	2086.1
7.5°	2492.6	2468.7	2399.5	2309.8	2214.2	2117.8	2046.0	1991.4	1954.6	1930.7	1935.8
10°	2572.0	2535.2	2429.4	2295.3	2147.6	2009.3	1924.7	1877.8	1854.7	1841.9	1845.3
12.5°	2663.4	2611.3	2460.1	2262.0	2046.0	1888.0	1829.9	1816.3	1817.1	1817.9	1819.7
15°	2776.1	2703.4	2484.9	2189.4	1913.6	1794.9	1784.6	1806.9	1829.9	1841.0	1840.2
17.5°	2903.3	2800.8	2489.1	2069.9	1783.8	1735.1	1767.6	1815.4	1850.4	1865.8	1869.2
20°	3039.9	2899.9	2458.5	1900.8	1677.1	1686.4	1744.6	1806.0	1844.5	1864.1	1869.2
22.5°	3196.2	3005.8	2385.0	1723.2	1590.0	1633.5	1701.8	1761.7	1801.7	1821.4	1826.6
25°	3374.7	3124.5	2269.7	1573.8	1514.8	1573.8	1642.0	1691.6	1724.0	1742.0	1747.1
27.5°	3572.7	3248.3	2116.0	1455.1	1449.0	1512.3	1568.7	1607.1	1624.1	1637.8	1643.0
30°	3771.7	3361.0	1929.9	1365.4	1391.8	1451.6	1491.8	1508.9	1514.0	1516.6	1522.5
32.5°	3986.9	3458.4	1734.3	1291.1	1337.2	1392.8	1416.7	1424.3	1400.5	1384.2	1389.3
35°	4247.4	3562.5	1543.0	1232.2	1283.4	1331.3	1339.0	1332.1	1303.9	1270.6	1272.3
37.5°	4569.2	3692.4	1390.2	1190.3	1233.1	1264.6	1255.2	1253.6	1256.1	1216.8	1219.3
40°	4963.8	3861.4	1278.3	1157.9	1192.1	1198.9	1172.4	1186.9	1199.8	1140.0	1141.6
42.5°	5401.9	4065.5	1207.4	1135.7	1157.9	1141.6	1100.6	1116.9	1115.2	1036.7	1035.8
45°	5848.4	4287.5	1182.6	1119.5	1126.3	1093.9	1048.6	1052.9	1017.0	946.2	948.7
47.5°	6292.5	4525.8	1198.0	1105.8	1087.0	1050.3	1015.3	996.5	943.6	890.6	890.6
50°	6728.0	4775.9	1254.4	1078.5	1033.2	1011.9	986.3	952.9	896.6	851.4	848.0
52.5°	7131.8	5027.8	1317.6	1033.2	965.8	978.6	962.4	923.9	868.4	822.4	823.2
55°	7514.5	5279.8	1342.3	970.9	902.6	949.6	940.1	869.3	802.7	765.1	761.7
57.5°	7931.1	5582.9	1315.1	891.4	851.4	916.2	880.4	801.9	763.4	735.2	732.7
60°	8508.4	6058.5	1256.1	793.2	802.7	866.7	805.2	772.7	730.9	699.4	697.6
62.5°	9467.3	6945.7	1161.3	696.0	745.5	793.2	769.4	737.0	694.2	663.5	663.5
65°	10884.8	8178.8	982.9	619.9	681.4	721.6	730.9	698.5	654.1	621.7	623.4
67.5°	12080.3	8952.5	743.7	556.8	615.7	663.5	689.9	658.4	611.4	579.8	580.7
70°	12014.5	8390.5	567.8	494.5	557.6	606.3	640.4	615.7	565.3	535.4	537.9
72.5°	10671.4	7019.2	459.4	431.2	498.7	546.5	587.5	568.7	517.5	488.4	488.4
75°	7839.8	4982.6	367.2	367.2	425.3	484.2	529.4	517.5	470.5	450.0	444.0
77.5°	3304.6	2090.4	287.7	304.8	353.5	415.8	472.2	476.5	435.5	461.1	418.4
80°	878.6	576.4	219.5	240.0	277.6	343.3	410.7	409.0	364.6	340.7	316.8
82.5°	334.8	227.1	156.3	169.1	200.7	263.0	325.3	335.6	291.2	251.9	251.9
85°	128.9	97.4	96.5	101.6	117.0	174.1	245.9	254.5	219.5	186.1	192.1
87.5°	33.3	29.0	35.9	34.1	53.8	93.1	140.9	146.1	134.1	77.7	111.0
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)