

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: P962619

Luminaire Tested: **NAV-SB2C-830-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962619
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-830-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13667.3 lumens
Efficiency: N/A
Efficacy: 135.5 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



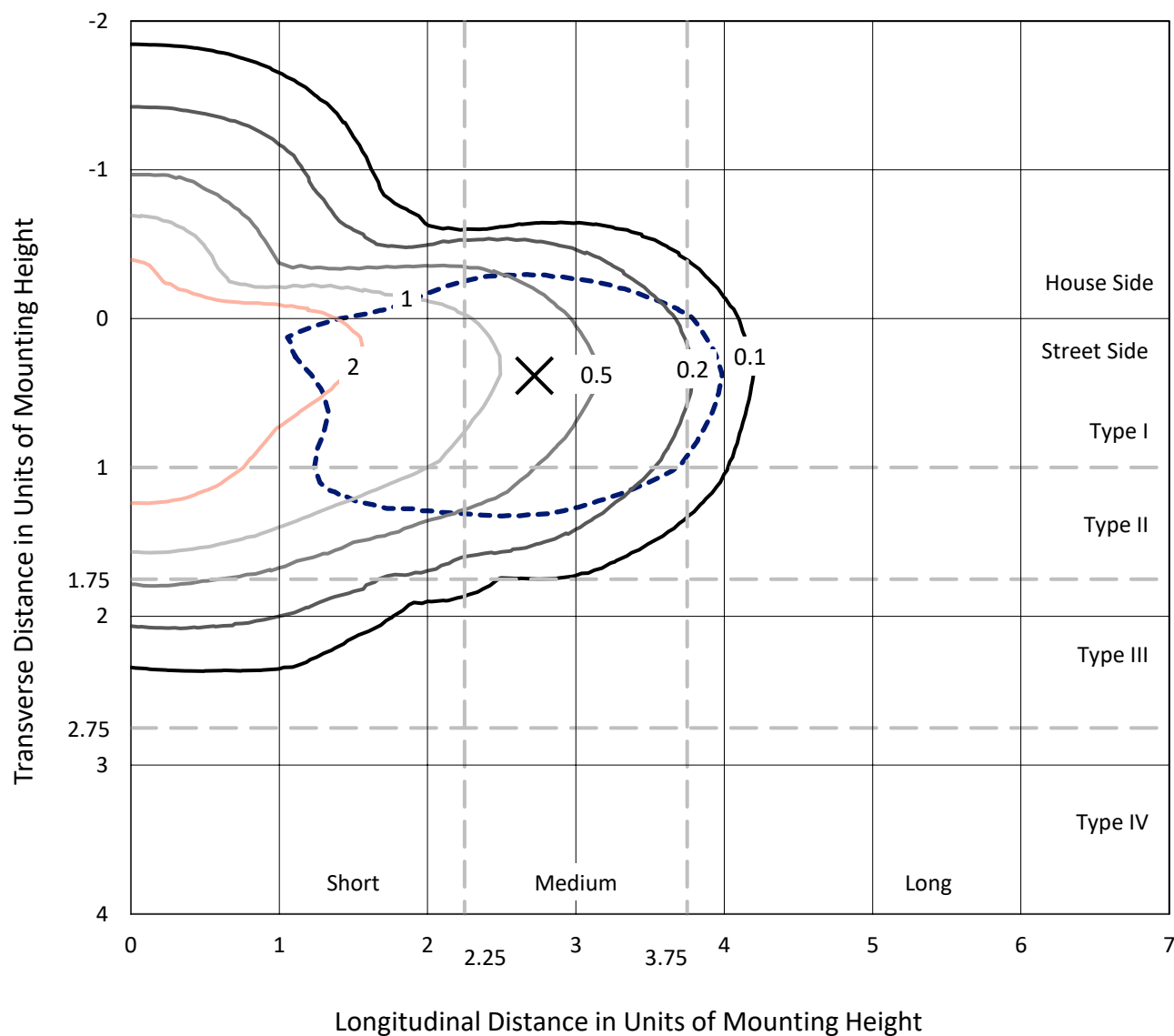
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

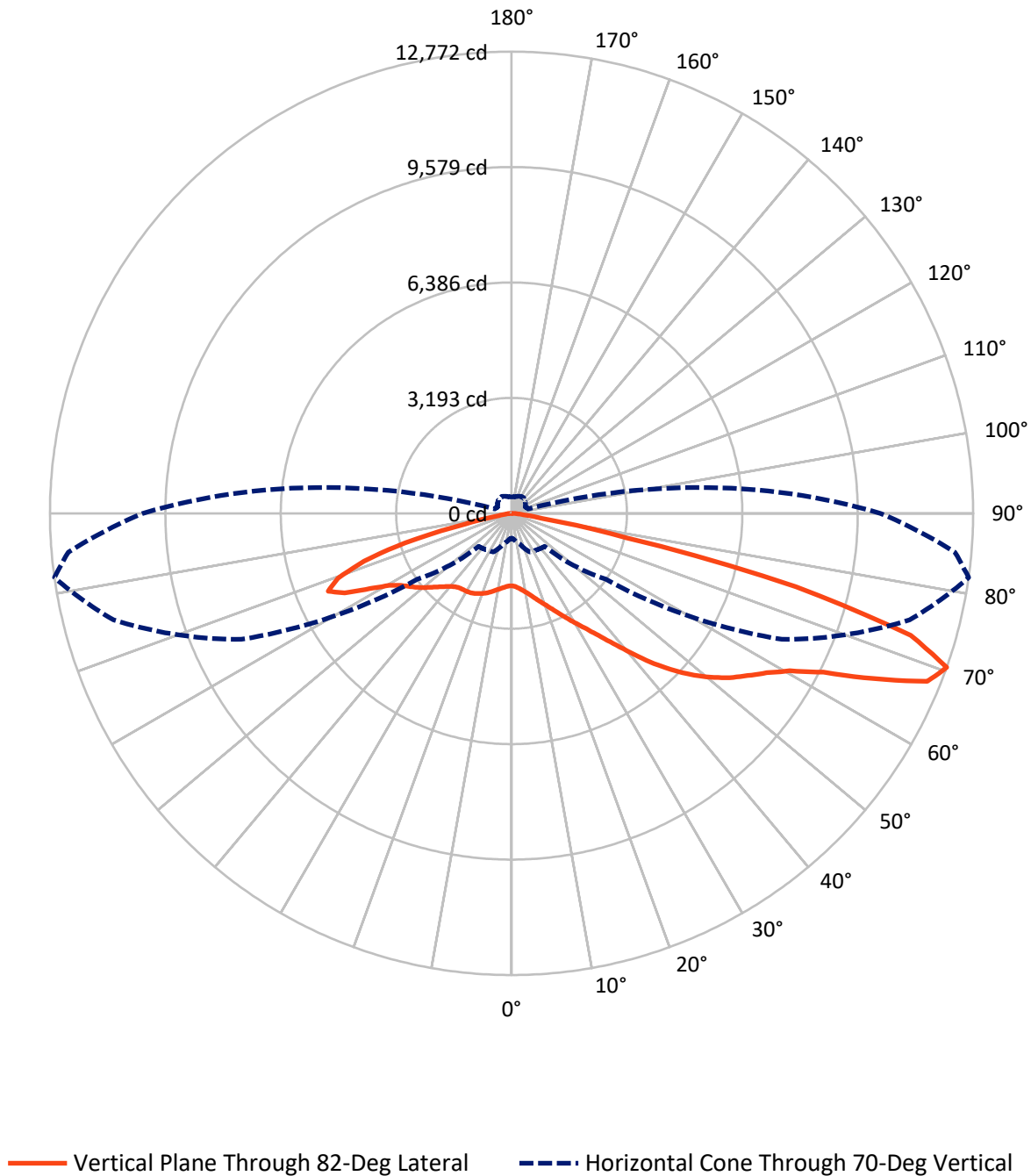
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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	3369.3	0.0	3369.3
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	10298.0	0.0	10298.0
	% Fixture	75.3	0.0	75.3
Total	Lumens	13667.3	0.0	13667.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.2	1.4
10°-20°	543.6	4.0
20°-30°	909.3	6.7
30°-40°	1420.6	10.4
40°-50°	2262.5	16.6
50°-60°	3148.5	23.0
60°-70°	3293.5	24.1
70°-80°	1721.4	12.6
80°-90°	178.7	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°	13667.3	100.0
0°-180°	13667.3	100.0

Coefficient of Utilization



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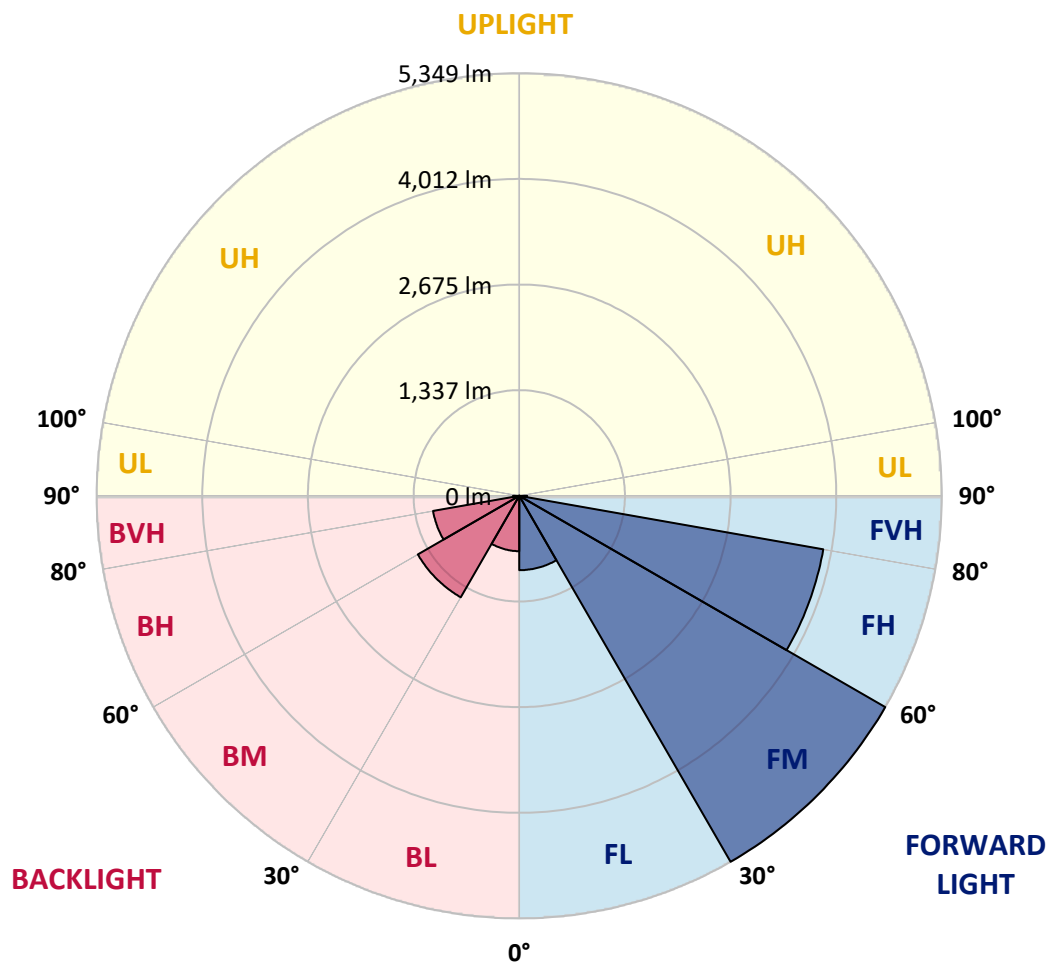
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	941.1	6.9			
FM	(30°-60°)	5349.3	39.1			
FH	(60°-80°)	3907.5	28.6			G2/5000
FVH	(80°-90°)	100.1	0.7			G2/225
BL	(0°-30°)	700.9	5.1	B2/1000		
BM	(30°-60°)	1482.4	10.8	B2/2500		
BH	(60°-80°)	1107.3	8.1	B3/2500		G3/2500
BVH	(80°-90°)	78.7	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°	2003.8	2003.8	2003.8	2003.8	2003.8	2003.8	2003.8	2003.8	2003.8	2003.8	2003.8
2.5°	2051.6	2063.2	2059.6	2056.0	2056.0	2050.9	2050.2	2042.9	2037.2	2027.8	2025.6
5°	2077.8	2090.1	2088.6	2091.5	2100.9	2103.2	2105.4	2100.9	2089.4	2077.8	2072.7
7.5°	2054.6	2068.3	2072.7	2090.1	2119.1	2145.2	2164.8	2172.8	2161.9	2145.2	2137.2
10°	1976.2	1991.5	2006.7	2048.1	2099.5	2161.2	2213.4	2244.5	2242.4	2226.4	2212.7
12.5°	1817.4	1833.4	1866.0	1946.5	2040.8	2149.5	2246.8	2312.0	2334.5	2322.9	2299.0
15°	1690.5	1704.3	1729.0	1811.6	1934.2	2099.5	2259.1	2386.0	2443.3	2436.7	2407.7
17.5°	1686.8	1692.7	1708.0	1747.1	1841.3	2021.2	2246.0	2458.6	2568.0	2567.3	2531.0
20°	1750.7	1752.9	1761.6	1769.6	1823.3	1961.7	2212.7	2518.7	2708.0	2708.0	2668.8
22.5°	1839.2	1837.7	1846.4	1839.2	1865.3	1956.6	2191.7	2571.6	2864.0	2875.5	2826.2
25°	1971.9	1964.6	1962.5	1945.8	1950.9	2003.8	2214.8	2631.9	3048.9	3072.7	3011.1
27.5°	2148.8	2137.2	2129.2	2090.8	2077.8	2100.9	2286.0	2704.4	3254.8	3296.2	3217.9
30°	2379.4	2358.4	2346.8	2280.1	2233.0	2236.7	2393.3	2800.8	3470.2	3537.0	3437.5
32.5°	2694.2	2661.6	2630.4	2520.9	2434.6	2406.3	2531.8	2934.3	3703.7	3810.3	3682.7
35°	3046.7	3020.6	2987.3	2818.2	2685.5	2620.2	2718.9	3120.6	3977.1	4146.1	3980.1
37.5°	3386.1	3363.6	3379.5	3151.9	2980.7	2885.7	2964.0	3370.8	4314.4	4563.8	4352.9
40°	3737.2	3719.7	3721.9	3504.3	3304.9	3198.2	3261.3	3684.9	4701.0	5060.6	4801.0
42.5°	4118.6	4105.5	4062.0	3869.1	3645.0	3545.7	3603.7	4047.5	5115.8	5626.3	5292.7
45°	4545.8	4537.8	4497.2	4276.0	4019.2	3907.5	3985.8	4447.8	5532.7	6158.6	5786.6
47.5°	4914.9	4921.4	4916.3	4730.0	4463.8	4299.9	4393.5	4865.6	5920.8	6659.0	6260.2
50°	5092.5	5126.6	5176.7	5118.6	4953.3	4786.5	4804.6	5268.8	6290.6	7128.3	6714.2
52.5°	4999.7	5064.2	5200.6	5293.4	5357.3	5322.4	5273.8	5669.1	6638.7	7551.8	7143.5
55°	4653.8	4744.4	4970.7	5194.8	5520.4	5773.5	5837.4	6112.9	6978.1	7924.6	7549.6
57.5°	4023.5	4170.8	4373.9	4827.1	5375.4	5991.8	6494.4	6728.6	7337.9	8322.7	7974.6
60°	2943.0	3140.2	3392.6	4067.1	4867.7	5875.1	7053.5	7674.4	7849.1	8838.4	8528.0
62.5°	1883.4	2005.2	2237.4	2872.7	3792.9	5276.8	7224.7	8856.5	8715.8	9684.0	9357.6
65°	1289.4	1367.8	1580.2	1937.0	2452.0	3927.8	6766.3	9742.7	10092.3	11024.2	10776.1
67.5°	937.0	996.5	1177.7	1490.4	1597.7	2324.4	5250.7	9702.1	11430.3	12405.1	12019.2
70°	683.2	725.2	877.5	1177.7	1229.3	1293.0	3180.9	8247.3	11401.3	12772.0	12310.0
72.5°	506.2	535.3	637.4	913.8	995.0	873.2	1574.5	5994.0	9797.1	11552.2	11181.5
75°	366.2	388.0	463.4	699.2	796.3	665.0	785.5	3502.8	6833.8	8126.2	8191.5
77.5°	279.9	296.6	345.9	512.0	637.4	499.0	487.4	1611.5	3240.3	3256.3	3439.1
80°	224.8	235.7	262.5	360.4	488.8	373.5	317.6	650.6	1024.0	866.6	909.5
82.5°	165.3	183.5	221.9	253.1	349.5	257.5	193.6	328.5	389.4	335.1	337.9
85°	94.3	106.6	134.2	181.3	223.3	157.3	111.0	145.8	181.3	148.6	132.7
87.5°	33.3	43.6	47.2	71.0	97.2	65.3	42.7	42.0	59.4	44.3	37.0
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°	2003.8	2003.8	2003.8	2003.8	2003.8	2003.8	2003.8	2003.8	2003.8	2003.8	2003.8
2.5°	2018.3	2014.6	2000.2	1980.6	1960.3	1940.7	1934.2	1920.4	1911.0	1905.9	1911.7
5°	2058.9	2047.3	2013.2	1969.7	1924.0	1874.7	1839.9	1808.0	1784.8	1763.0	1771.7
7.5°	2116.9	2096.6	2037.9	1961.7	1880.5	1798.6	1737.7	1691.2	1660.1	1639.7	1644.1
10°	2184.4	2153.2	2063.2	1949.4	1824.0	1706.4	1634.7	1594.8	1575.2	1564.4	1567.2
12.5°	2262.0	2217.8	2089.4	1921.2	1737.7	1603.5	1554.2	1542.5	1543.2	1544.1	1545.5
15°	2357.7	2296.1	2110.4	1859.5	1625.2	1524.4	1515.8	1534.6	1554.2	1563.6	1562.8
17.5°	2465.7	2378.7	2114.1	1758.0	1514.9	1473.6	1501.2	1541.8	1571.5	1584.6	1587.5
20°	2581.8	2462.9	2087.9	1614.4	1424.3	1432.3	1481.6	1533.8	1566.5	1583.2	1587.5
22.5°	2714.5	2552.8	2025.6	1463.5	1350.3	1387.3	1445.4	1496.2	1530.2	1546.9	1551.2
25°	2866.1	2653.6	1927.6	1336.6	1286.6	1336.6	1394.6	1436.6	1464.2	1479.5	1483.8
27.5°	3034.3	2758.8	1797.1	1235.7	1230.7	1284.4	1332.2	1364.9	1379.3	1391.0	1395.3
30°	3203.3	2854.5	1639.0	1159.7	1182.1	1232.9	1267.0	1281.5	1285.9	1288.0	1293.0
32.5°	3386.1	2937.1	1472.9	1096.5	1135.7	1182.8	1203.1	1209.7	1189.4	1175.6	1180.0
35°	3607.3	3025.7	1310.5	1046.5	1090.0	1130.7	1137.1	1131.4	1107.4	1079.1	1080.6
37.5°	3880.6	3135.9	1180.7	1011.0	1047.2	1074.1	1066.1	1064.7	1066.8	1033.4	1035.7
40°	4215.7	3279.5	1085.7	983.4	1012.4	1018.2	995.8	1008.1	1019.0	968.2	969.6
42.5°	4587.8	3452.8	1025.5	964.5	983.4	969.6	934.8	948.6	947.1	880.5	879.7
45°	4967.0	3641.4	1004.4	950.8	956.5	929.1	890.6	894.2	863.8	803.6	805.8
47.5°	5344.2	3843.7	1017.5	939.2	923.2	892.1	862.3	846.3	801.3	756.4	756.4
50°	5714.1	4056.2	1065.4	915.9	877.5	859.4	837.6	809.3	761.5	723.0	720.2
52.5°	6057.1	4270.2	1119.0	877.5	820.2	831.1	817.3	784.7	737.6	698.4	699.2
55°	6382.0	4484.1	1140.1	824.6	766.6	806.5	798.5	738.3	681.7	649.8	646.9
57.5°	6735.9	4741.5	1116.8	757.2	723.0	778.2	747.7	681.0	648.3	624.4	622.3
60°	7226.1	5145.5	1066.8	673.7	681.7	736.2	683.9	656.3	620.8	594.0	592.6
62.5°	8040.6	5899.0	986.4	591.0	633.1	673.7	653.4	625.9	589.6	563.5	563.5
65°	9244.5	6946.2	834.8	526.5	578.7	612.8	620.8	593.3	555.6	528.0	529.4
67.5°	10259.8	7603.2	631.7	472.8	522.9	563.5	586.0	559.1	519.3	492.4	493.1
70°	10204.0	7126.1	482.3	419.9	473.6	515.0	544.0	522.9	480.1	454.7	456.8
72.5°	9063.2	5961.4	390.2	366.2	423.5	464.1	499.0	483.0	439.5	414.8	414.8
75°	6658.3	4231.7	311.8	311.8	361.2	411.2	449.7	439.5	399.6	382.2	377.1
77.5°	2806.7	1775.4	244.4	258.9	300.2	353.2	401.1	404.7	369.8	391.7	355.4
80°	746.3	489.5	186.3	203.8	235.7	291.5	348.8	347.4	309.7	289.4	269.1
82.5°	284.3	192.9	132.7	143.6	170.5	223.3	276.3	285.1	247.3	213.9	213.9
85°	109.5	82.7	82.0	86.3	99.3	147.9	208.9	216.1	186.3	158.1	163.2
87.5°	28.3	24.7	30.4	29.0	45.7	79.0	119.6	124.0	113.9	66.0	94.3
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)