

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: P969808

Luminaire Tested: **NAV-SB6A-730-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969808
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-730-U-T2R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28399.7 lumens
Efficiency: N/A
Efficacy: 166.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

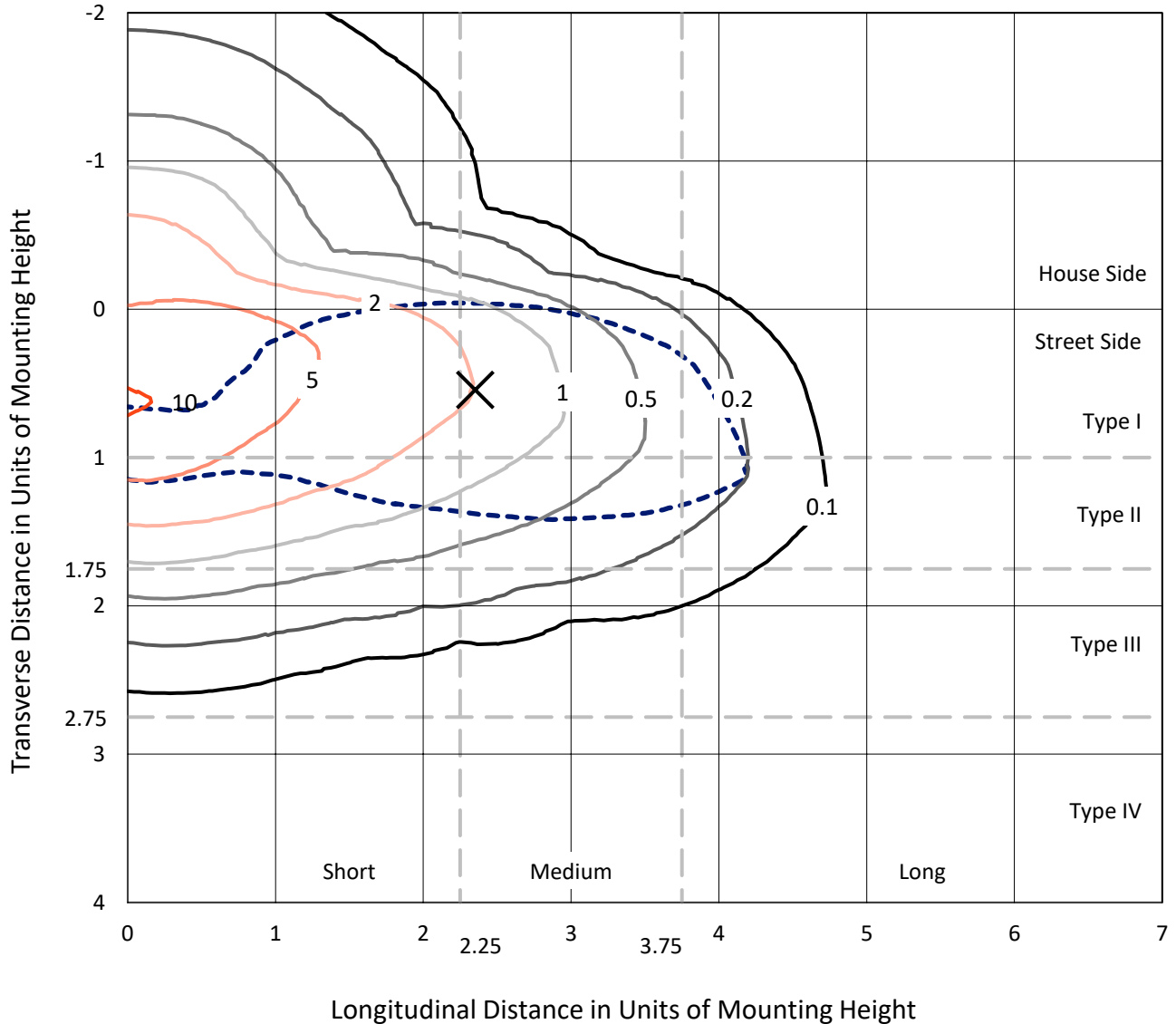
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

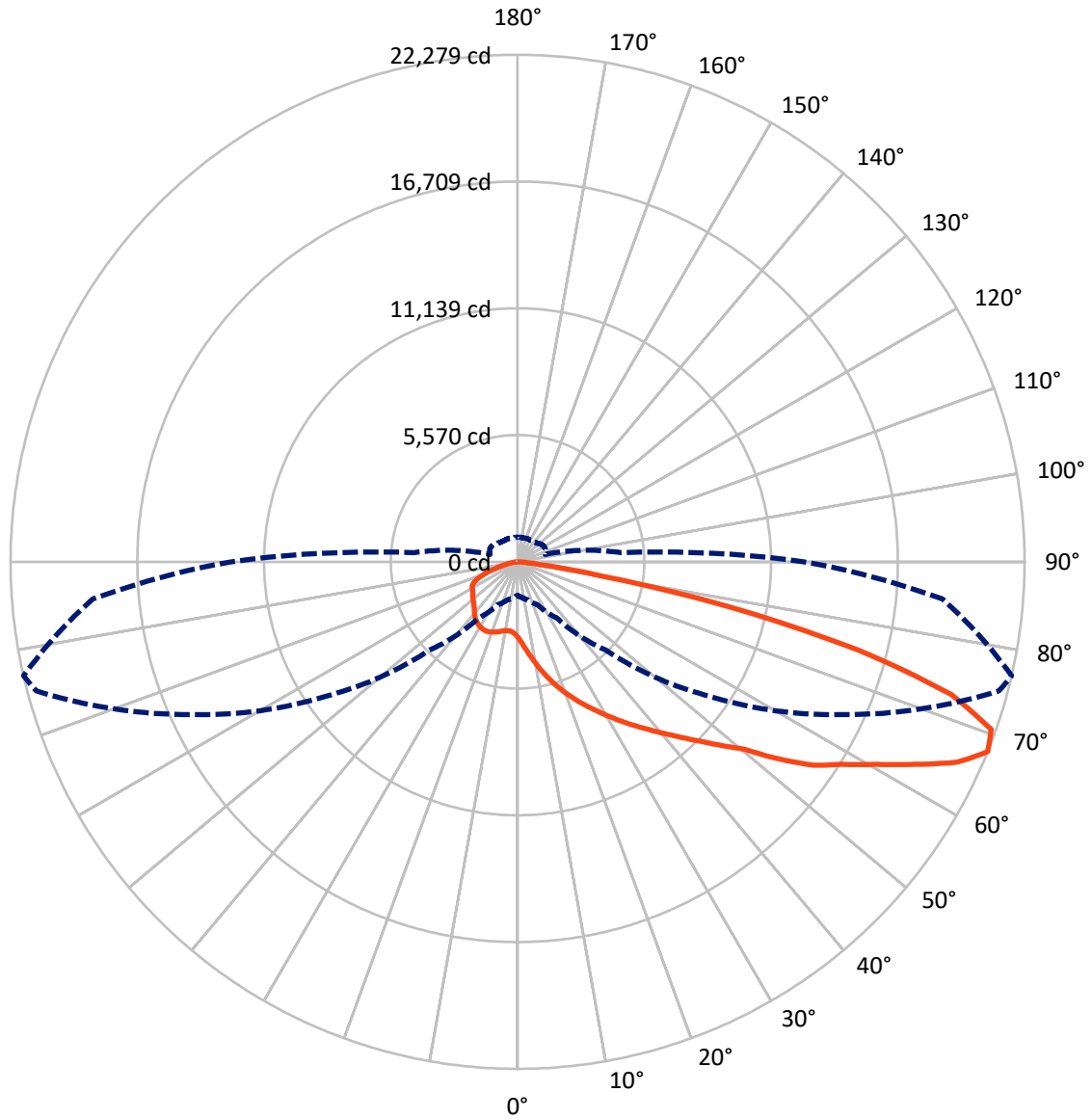
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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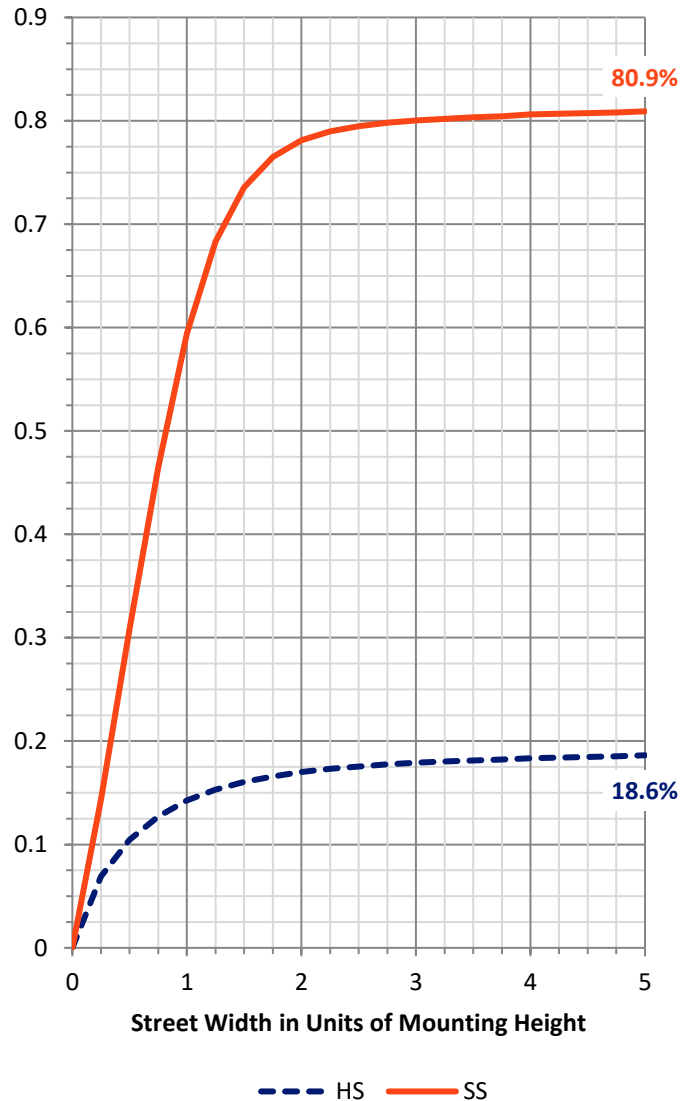
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5372.1	0.0	5372.1
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	23027.6	0.0	23027.6
	% Fixture	81.1	0.0	81.1
Total	Lumens	28399.7	0.0	28399.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.2	1.3
10°-20°	1283.1	4.5
20°-30°	2422.7	8.5
30°-40°	3902.9	13.7
40°-50°	5338.5	18.8
50°-60°	6021.9	21.2
60°-70°	5620.7	19.8
70°-80°	3081.1	10.8
80°-90°	371.6	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°	28399.7	100.0
0°-180°	28399.7	100.0

Coefficient of Utilization



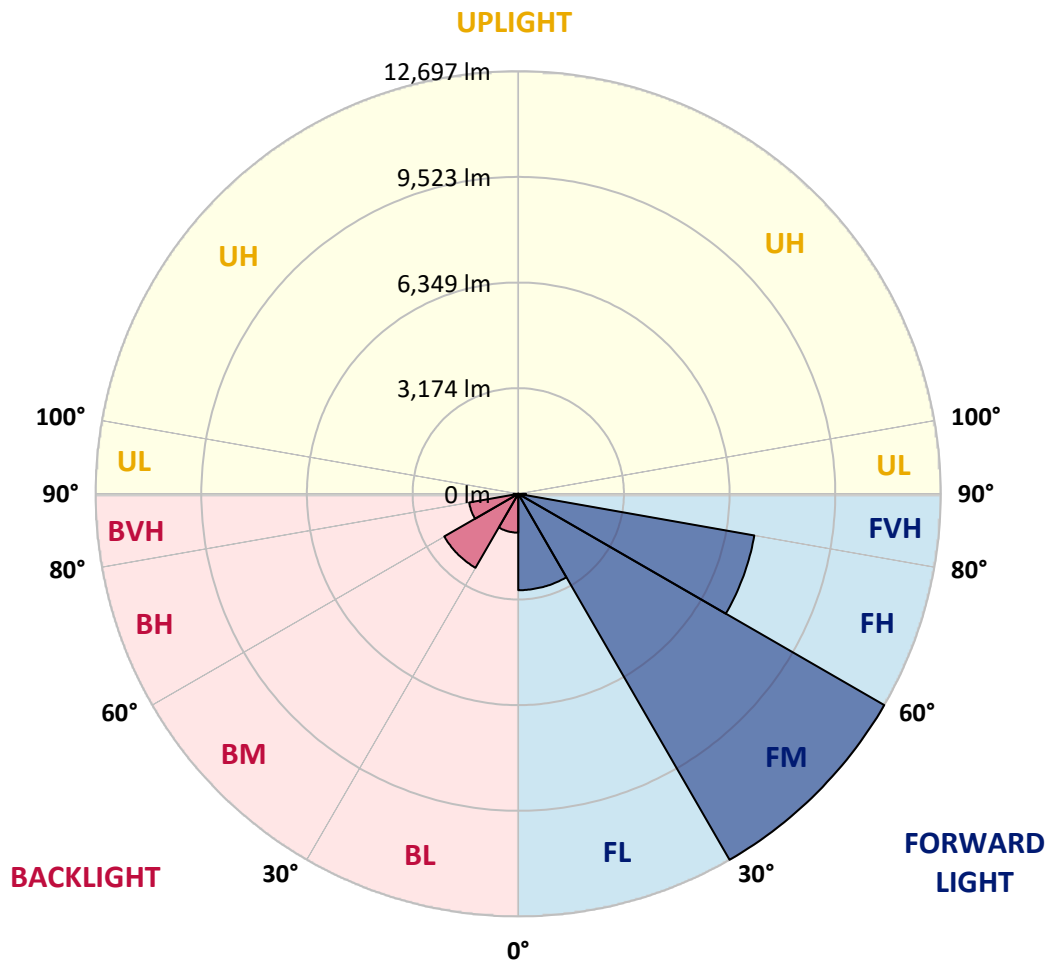
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2895.0	10.2			
FM (30°-60°)	12697.2	44.7			
FH (60°-80°)	7203.0	25.4			G3/7500
FVH (80°-90°)	232.4	0.8			G3/500
BL (0°-30°)	1168.0	4.1	B3/2500		
BM (30°-60°)	2566.1	9.0	B3/5000		
BH (60°-80°)	1498.7	5.3	B3/2500		G3/2500
BVH (80°-90°)	139.2	0.5			G2/225
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°	77°	85°
0°	3332.2	3332.2	3332.2	3332.2	3332.2	3332.2	3332.2	3332.2	3332.2	3332.2	3332.2
2.5°	4172.2	4201.5	4164.9	4164.9	4041.7	3977.2	3854.1	3760.2	3591.6	3562.3	3450.9
5°	4931.6	4968.2	4916.9	4894.9	4749.7	4616.4	4409.7	4205.9	3905.4	3874.6	3612.2
7.5°	5519.4	5566.3	5520.9	5497.4	5368.4	5218.9	4977.0	4692.6	4268.9	4208.9	3829.1
10°	5998.8	6006.1	5991.4	6000.2	5899.1	5776.0	5528.2	5196.9	4667.6	4585.5	4091.5
12.5°	6270.0	6303.6	6333.1	6385.7	6368.2	6292.0	6069.1	5673.4	5089.8	4984.4	4377.4
15°	6397.5	6456.2	6522.2	6643.8	6742.0	6761.1	6591.1	6185.0	5519.4	5391.9	4666.2
17.5°	6442.9	6498.7	6602.7	6778.6	6989.8	7132.0	7055.8	6681.9	5944.5	5797.9	4969.6
20°	6673.2	6689.3	6752.3	6919.4	7148.1	7384.1	7441.3	7159.8	6365.2	6199.6	5283.4
22.5°	7165.7	7133.5	7151.0	7227.3	7391.5	7620.2	7750.6	7582.0	6797.7	6607.2	5600.0
25°	7979.3	7885.5	7791.6	7703.7	7787.2	7916.3	8064.3	8004.2	7250.7	7008.8	5919.6
27.5°	9007.0	8892.6	8686.0	8397.1	8295.9	8341.4	8407.4	8395.7	7670.0	7425.2	6249.4
30°	10018.5	9885.1	9638.8	9221.0	8954.2	8834.0	8784.1	8750.4	8125.9	7864.9	6582.2
32.5°	10826.3	10720.7	10478.8	10011.2	9624.1	9418.9	9253.3	9133.1	8602.3	8341.4	6934.0
35°	11532.8	11434.6	11157.5	10647.4	10226.6	10008.2	9791.2	9534.8	9097.9	8834.0	7312.2
37.5°	12177.8	12079.6	11700.0	11169.3	10745.6	10594.6	10401.1	9965.7	9594.8	9345.6	7712.5
40°	12585.4	12563.4	12208.7	11607.6	11167.8	11093.1	11028.6	10465.6	10146.1	9914.4	8152.3
42.5°	12689.5	12737.9	12456.4	11962.4	11543.1	11483.0	11634.0	11031.5	10764.7	10543.3	8650.7
45°	12438.8	12578.1	12393.4	12057.7	11809.9	11777.7	12170.5	11650.2	11449.2	11247.0	9251.8
47.5°	11804.0	12040.1	11963.8	11917.0	11881.7	12021.0	12642.6	12306.9	12224.8	12048.9	9937.9
50°	10522.8	10969.9	11103.3	11399.4	11739.5	12210.1	13072.1	13023.8	13130.8	12953.3	10773.5
52.5°	8307.7	8923.4	9697.4	10439.2	11302.7	12147.1	13544.1	14052.9	14504.4	14407.6	12101.7
55°	6857.9	7134.9	7730.1	9090.5	10455.3	11881.7	13756.7	14884.0	15867.7	15781.2	13108.7
57.5°	5743.7	5991.4	6358.0	7494.1	9174.1	11279.2	13888.6	15391.3	16801.6	16792.8	14102.7
60°	4549.0	4811.3	5186.6	5991.4	7677.4	10238.4	13859.3	15968.9	17993.4	18066.6	15315.0
62.5°	3200.3	3489.0	3905.4	4656.0	6148.3	8889.7	13261.2	16386.7	19396.4	19595.7	16773.7
65°	2103.7	2294.3	2608.0	3255.9	4581.1	7155.4	12119.2	16440.9	20897.5	21234.6	18142.9
67.5°	1474.8	1548.1	1732.8	2084.6	3020.0	5487.1	10299.9	15879.5	21898.7	22278.5	18736.7
70°	1150.8	1187.5	1281.2	1422.0	1897.0	3689.9	7892.8	14419.4	21684.7	22080.6	18116.6
72.5°	993.9	1029.1	1064.3	1081.9	1272.4	2278.2	5346.4	12056.2	19669.0	19937.3	15751.9
75°	901.6	910.4	939.7	933.9	970.5	1477.7	3085.9	8784.1	15518.8	15426.5	11628.1
77.5°	757.9	769.7	818.1	810.7	862.0	1010.0	1602.3	5669.0	10061.0	9433.6	6472.3
80°	642.1	648.0	700.7	692.0	749.1	731.5	818.1	2889.5	4267.5	3615.1	1866.2
82.5°	222.8	275.6	535.0	551.2	571.7	442.7	472.0	1178.6	1303.3	998.4	391.4
85°	108.4	115.8	272.6	387.0	385.5	222.8	230.1	420.8	410.5	322.5	130.5
87.5°	17.6	22.0	32.3	151.0	120.2	58.6	79.1	82.1	85.1	73.3	29.3
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°	3332.2	3332.2	3332.2	3332.2	3332.2	3332.2	3332.2	3332.2	3332.2	3332.2	3332.2
2.5°	3368.8	3295.5	3141.6	2999.4	2887.9	2780.9	2720.9	2669.5	2640.2	2634.4	2634.4
5°	3459.7	3308.7	3028.7	2792.7	2638.8	2524.4	2464.3	2426.2	2407.1	2395.4	2394.0
7.5°	3590.2	3368.8	2970.0	2701.8	2540.6	2458.5	2427.6	2421.8	2420.3	2421.8	2426.2
10°	3770.5	3467.1	2964.2	2679.8	2545.0	2499.5	2498.0	2499.5	2505.3	2506.8	2508.3
12.5°	3965.4	3568.2	2987.7	2698.8	2600.6	2575.7	2571.3	2569.9	2574.3	2577.2	2578.7
15°	4178.0	3701.6	3027.2	2739.9	2662.2	2635.8	2631.4	2622.7	2621.1	2619.7	2618.3
17.5°	4396.4	3833.5	3071.2	2783.9	2701.8	2665.1	2649.0	2628.5	2612.4	2608.0	2612.4
20°	4617.8	3964.0	3102.0	2805.8	2704.8	2653.4	2621.1	2586.0	2558.1	2542.0	2547.8
22.5°	4853.9	4100.3	3121.0	2800.0	2678.3	2608.0	2549.4	2508.3	2465.7	2438.0	2439.4
25°	5084.0	4219.1	3119.6	2769.2	2627.1	2537.6	2462.9	2410.1	2351.5	2322.1	2322.1
27.5°	5305.4	4326.1	3083.0	2715.0	2553.7	2454.1	2364.6	2301.5	2244.4	2216.6	2215.1
30°	5534.1	4415.5	3025.8	2635.8	2467.3	2357.3	2259.1	2204.9	2153.5	2127.2	2125.6
32.5°	5761.3	4497.6	2945.1	2537.6	2367.5	2262.0	2165.2	2115.4	2084.6	2084.6	2086.1
35°	6001.7	4554.8	2838.1	2423.3	2262.0	2160.8	2084.6	2055.3	2052.4	2034.7	2030.4
37.5°	6255.4	4591.5	2707.6	2305.9	2157.9	2062.6	2039.1	2004.0	1974.7	1936.5	1930.7
40°	6522.2	4628.1	2550.8	2184.3	2048.0	1995.2	1984.9	1938.1	1854.4	1760.6	1747.4
42.5°	6846.1	4653.0	2388.0	2062.6	1932.1	1914.6	1929.3	1848.6	1715.2	1644.8	1646.3
45°	7221.4	4694.1	2238.5	1942.4	1813.4	1813.4	1875.0	1769.5	1659.5	1615.5	1622.9
47.5°	7708.1	4789.3	2099.3	1810.5	1703.4	1732.8	1754.8	1674.1	1612.5	1558.3	1556.9
50°	8411.8	5018.0	1955.6	1677.1	1619.9	1678.5	1647.8	1600.8	1529.0	1485.0	1480.6
52.5°	9285.5	5152.9	1828.1	1556.9	1548.1	1606.7	1562.7	1518.7	1464.5	1405.9	1394.1
55°	9880.7	5177.8	1721.1	1468.9	1499.7	1493.8	1477.7	1438.1	1408.8	1331.1	1332.6
57.5°	10546.2	5227.7	1633.1	1416.1	1468.9	1404.5	1398.5	1364.8	1326.7	1274.0	1256.3
60°	11342.2	5305.4	1556.9	1395.6	1442.5	1345.7	1316.4	1303.3	1265.2	1238.7	1246.1
62.5°	12210.1	5375.7	1479.2	1398.5	1411.7	1288.6	1244.7	1240.2	1216.8	1208.0	1208.0
65°	12802.4	5183.7	1382.4	1395.6	1363.4	1230.0	1174.2	1172.8	1153.7	1150.8	1149.3
67.5°	12595.7	4575.3	1251.9	1354.5	1313.5	1171.3	1109.8	1103.9	1078.9	1080.5	1080.5
70°	11560.7	3707.4	1071.6	1253.4	1251.9	1118.6	1042.3	1023.3	989.5	995.4	1001.2
72.5°	9619.7	2747.2	829.7	1084.9	1153.7	1070.2	964.6	933.9	891.3	897.2	895.7
75°	6947.2	1867.7	604.0	825.3	1004.2	1013.0	888.4	835.6	784.3	793.0	796.0
77.5°	3555.0	1058.4	444.2	568.8	788.7	920.7	819.5	749.1	737.4	819.5	807.8
80°	1159.6	530.6	307.8	398.7	517.5	753.5	718.3	637.7	634.8	653.8	561.5
82.5°	345.9	224.3	197.9	262.4	285.9	577.6	620.1	482.3	414.9	436.9	451.5
85°	118.7	108.4	112.9	130.5	136.3	338.7	433.9	319.6	302.0	332.8	328.4
87.5°	27.9	38.1	32.3	29.3	29.3	82.1	168.6	133.5	184.7	123.1	118.7
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)