

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: P962991

Luminaire Tested: **NAV-SB2D-735-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962991
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-SB2D-735-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

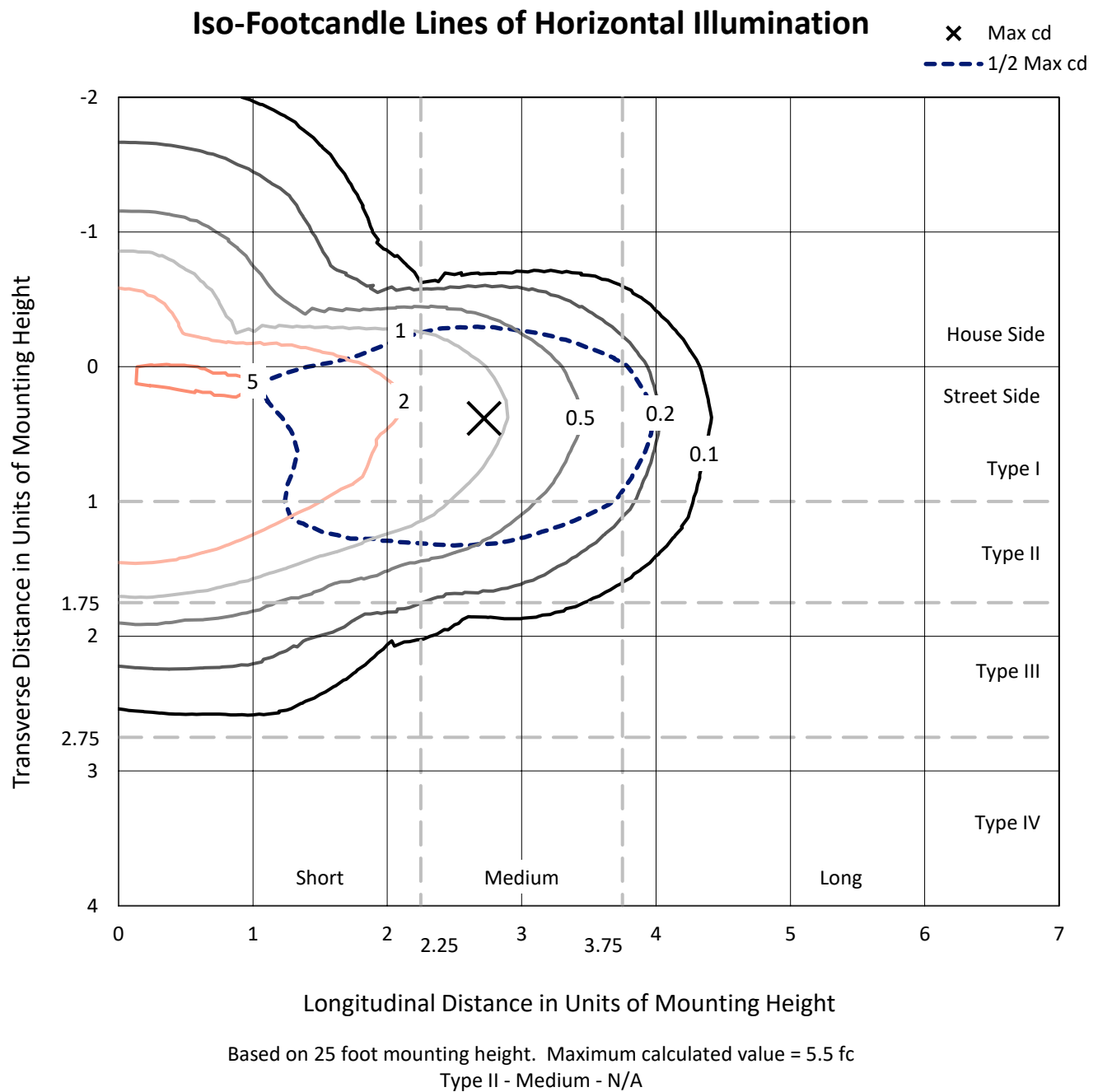
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20668.1 lumens
Efficiency: N/A
Efficacy: 140.0 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): 147.6
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

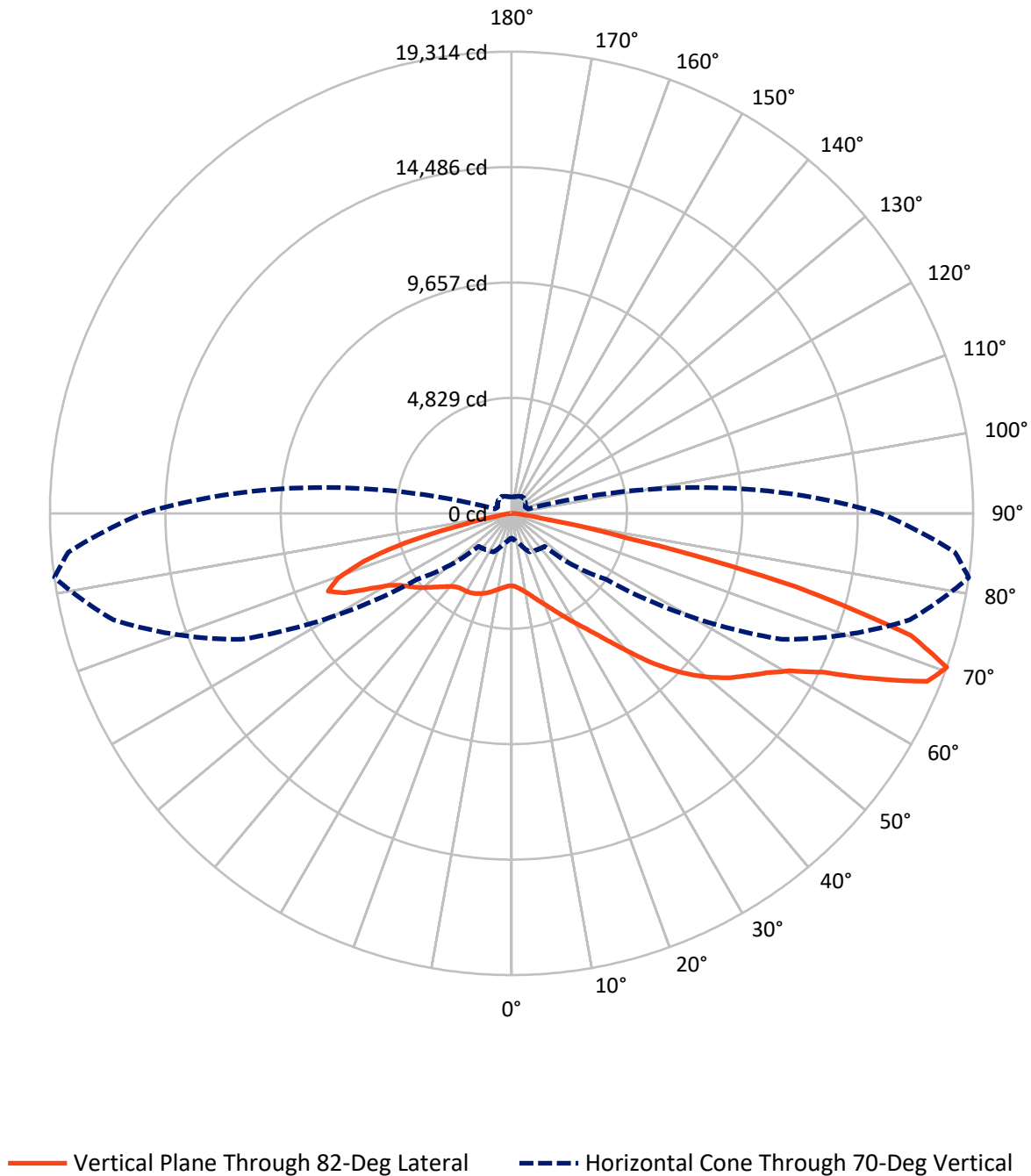


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5095.2	0.0	5095.2
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	15572.9	0.0	15572.9
	% Fixture	75.3	0.0	75.3
Total	Lumens	20668.1	0.0	20668.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.1	1.4
10°-20°	822.0	4.0
20°-30°	1375.1	6.7
30°-40°	2148.3	10.4
40°-50°	3421.4	16.6
50°-60°	4761.3	23.0
60°-70°	4980.5	24.1
70°-80°	2603.1	12.6
80°-90°	270.3	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°	20668.1	100.0
0°-180°	20668.1	100.0

Coefficient of Utilization



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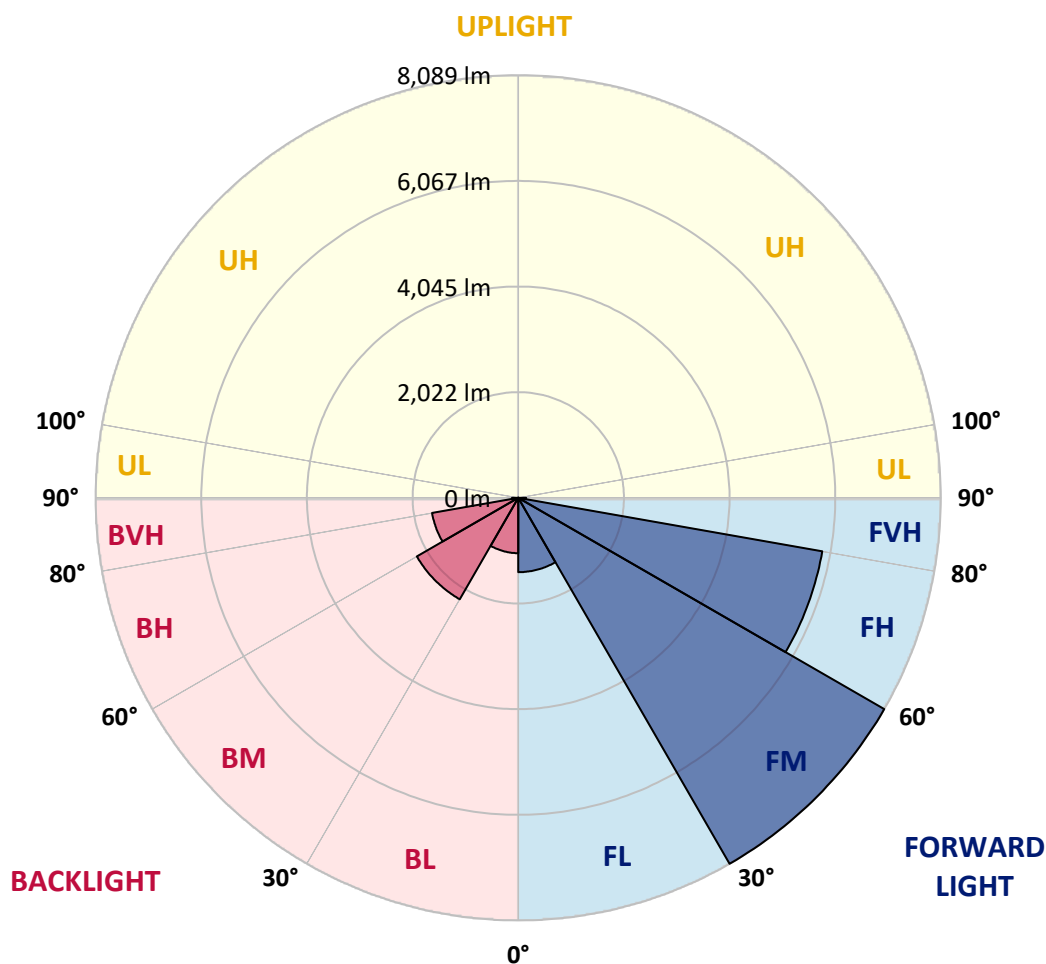
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1423.2	6.9			
FM	(30°-60°)	8089.3	39.1			
FH	(60°-80°)	5909.1	28.6			G3/7500
FVH	(80°-90°)	151.3	0.7			G2/225
BL	(0°-30°)	1060.0	5.1	B3/2500		
BM	(30°-60°)	2241.7	10.8	B2/2500		
BH	(60°-80°)	1674.5	8.1	B3/2500		G3/2500
BVH	(80°-90°)	119.0	0.6			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°	82°	85°
0°	3030.2	3030.2	3030.2	3030.2	3030.2	3030.2	3030.2	3030.2	3030.2	3030.2	3030.2
2.5°	3102.6	3120.1	3114.7	3109.1	3109.1	3101.4	3100.4	3089.5	3080.6	3066.4	3063.1
5°	3142.0	3160.7	3158.5	3162.9	3177.2	3180.5	3183.8	3177.2	3159.6	3142.0	3134.3
7.5°	3107.0	3127.8	3134.3	3160.7	3204.6	3244.0	3273.6	3285.7	3269.2	3244.0	3232.0
10°	2988.5	3011.6	3034.6	3097.1	3174.9	3268.2	3347.1	3394.3	3391.0	3366.9	3346.0
12.5°	2748.3	2772.5	2821.8	2943.6	3086.2	3250.7	3397.6	3496.3	3530.3	3512.8	3476.6
15°	2556.5	2577.3	2614.6	2739.6	2924.9	3174.9	3416.2	3608.2	3694.8	3685.0	3641.1
17.5°	2550.9	2559.7	2582.8	2641.9	2784.5	3056.5	3396.5	3717.9	3883.4	3882.4	3827.6
20°	2647.5	2650.8	2663.9	2676.0	2757.1	2966.6	3346.0	3808.9	4095.1	4095.1	4035.8
22.5°	2781.2	2779.1	2792.2	2781.2	2820.7	2958.9	3314.2	3889.0	4330.9	4348.5	4273.8
25°	2981.9	2971.0	2967.7	2942.5	2950.2	3030.2	3349.4	3980.0	4610.6	4646.7	4553.6
27.5°	3249.6	3232.0	3219.9	3161.8	3142.0	3177.2	3456.8	4089.6	4922.0	4984.6	4866.1
30°	3598.3	3566.5	3549.0	3448.0	3376.8	3382.3	3619.2	4235.5	5247.8	5348.7	5198.4
32.5°	4074.3	4024.9	3977.7	3812.2	3681.6	3638.9	3828.6	4437.3	5600.9	5762.1	5569.0
35°	4607.3	4567.8	4517.4	4261.8	4061.2	3962.4	4111.6	4719.1	6014.4	6269.9	6018.7
37.5°	5120.5	5086.6	5110.6	4766.2	4507.4	4363.8	4482.2	5097.5	6524.3	6901.5	6582.4
40°	5651.3	5625.0	5628.3	5299.2	4997.7	4836.5	4931.9	5572.4	7108.9	7652.9	7260.2
42.5°	6228.2	6208.4	6142.6	5850.9	5512.0	5361.8	5449.5	6120.7	7736.2	8508.2	8003.8
45°	6874.2	6862.1	6800.7	6466.2	6077.9	5909.0	6027.5	6726.2	8366.8	9313.3	8750.6
47.5°	7432.4	7442.2	7434.5	7152.8	6750.2	6502.4	6643.8	7357.8	8953.5	10070.0	9466.8
50°	7701.0	7752.6	7828.3	7740.6	7490.5	7238.2	7265.7	7967.5	9512.8	10779.5	10153.3
52.5°	7560.7	7658.3	7864.5	8004.8	8101.4	8048.7	7975.2	8573.0	10039.3	11420.0	10802.6
55°	7037.5	7174.7	7516.8	7855.7	8348.1	8730.8	8827.4	9244.2	10552.5	11983.7	11416.8
57.5°	6084.5	6307.1	6614.2	7299.6	8128.8	9061.0	9821.0	10175.3	11096.4	12585.8	12059.4
60°	4450.4	4748.7	5130.4	6150.3	7361.1	8884.4	10666.6	11605.4	11869.7	13365.6	12896.1
62.5°	2848.2	3032.4	3383.3	4344.1	5735.8	7979.6	10925.4	13393.0	13180.3	14644.4	14150.8
65°	1950.0	2068.3	2389.7	2929.3	3707.9	5939.8	10232.3	14733.1	15261.7	16671.0	16296.0
67.5°	1417.0	1506.9	1781.0	2253.8	2416.0	3514.9	7940.2	14671.7	17285.2	18759.1	18175.7
70°	1033.1	1096.8	1327.0	1781.0	1858.9	1955.4	4810.1	12471.8	17241.3	19314.1	18615.5
72.5°	765.5	809.3	964.0	1381.8	1504.7	1320.4	2381.0	9064.3	14815.5	17469.5	16909.0
75°	553.8	586.7	700.8	1057.2	1204.2	1005.7	1187.8	5297.1	10334.3	12288.6	12387.3
77.5°	423.3	448.5	523.2	774.3	964.0	754.5	737.0	2436.8	4900.1	4924.2	5200.5
80°	340.0	356.4	397.0	545.1	739.2	564.8	480.3	983.8	1548.6	1310.6	1375.2
82.5°	250.1	277.5	335.6	382.7	528.6	389.3	292.8	496.8	589.0	506.7	511.1
85°	142.6	161.2	202.8	274.2	337.7	238.0	167.8	220.5	274.2	224.8	200.7
87.5°	50.4	65.8	71.2	107.5	147.0	98.7	64.7	63.7	89.9	66.9	56.0
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°	3030.2	3030.2	3030.2	3030.2	3030.2	3030.2	3030.2	3030.2	3030.2	3030.2	3030.2
2.5°	3052.1	3046.6	3024.7	2995.2	2964.4	2934.8	2924.9	2904.0	2889.8	2882.2	2890.9
5°	3113.5	3096.0	3044.5	2978.6	2909.6	2834.9	2782.4	2734.1	2699.0	2666.1	2679.2
7.5°	3201.3	3170.5	3081.8	2966.6	2843.8	2719.8	2627.7	2557.5	2510.3	2479.7	2486.2
10°	3303.3	3256.1	3120.1	2947.9	2758.2	2580.5	2472.0	2411.6	2382.0	2365.6	2370.0
12.5°	3420.6	3353.7	3159.6	2905.2	2627.7	2424.8	2350.2	2332.7	2333.8	2334.8	2337.1
15°	3565.4	3472.2	3191.4	2812.0	2457.7	2305.3	2292.1	2320.6	2350.2	2364.5	2363.4
17.5°	3728.8	3597.2	3196.9	2658.4	2291.0	2228.6	2270.2	2331.6	2376.6	2396.3	2400.7
20°	3904.3	3724.4	3157.4	2441.2	2153.9	2166.0	2240.5	2319.6	2368.9	2394.1	2400.7
22.5°	4105.0	3860.5	3063.1	2213.2	2042.1	2098.0	2185.7	2262.5	2314.0	2339.3	2345.8
25°	4334.2	4012.9	2915.0	2021.2	1945.6	2021.2	2108.9	2172.6	2214.2	2237.3	2243.8
27.5°	4588.6	4171.9	2717.7	1868.8	1861.1	1942.3	2014.6	2064.0	2086.0	2103.5	2110.1
30°	4844.2	4316.7	2478.6	1753.7	1787.6	1864.4	1915.9	1937.9	1944.4	1947.7	1955.4
32.5°	5120.5	4441.6	2227.4	1658.2	1717.5	1788.7	1819.5	1829.3	1798.6	1777.8	1784.3
35°	5455.0	4575.5	1981.7	1582.5	1648.3	1709.8	1719.6	1710.8	1674.6	1631.9	1634.1
37.5°	5868.4	4742.2	1785.4	1528.8	1583.6	1624.2	1612.1	1610.0	1613.2	1562.8	1566.1
40°	6375.2	4959.4	1641.7	1487.2	1531.0	1539.8	1505.8	1524.4	1540.9	1464.1	1466.3
42.5°	6937.8	5221.5	1550.7	1458.6	1487.2	1466.3	1413.7	1434.5	1432.3	1331.4	1330.3
45°	7511.3	5506.6	1518.9	1437.8	1446.6	1404.9	1346.7	1352.3	1306.2	1215.1	1218.4
47.5°	8081.6	5812.6	1538.7	1420.2	1396.2	1348.9	1304.0	1279.8	1211.9	1143.9	1143.9
50°	8641.0	6133.9	1611.1	1385.2	1327.0	1299.6	1266.7	1224.0	1151.6	1093.4	1089.1
52.5°	9159.7	6457.4	1692.2	1327.0	1240.4	1256.9	1235.9	1186.6	1115.3	1056.2	1057.2
55°	9651.0	6781.0	1724.0	1246.9	1159.2	1219.5	1207.4	1116.4	1030.9	982.7	978.3
57.5°	10186.2	7170.3	1688.9	1144.9	1093.4	1176.8	1130.7	1029.8	980.4	944.2	941.0
60°	10927.6	7781.2	1613.2	1018.8	1030.9	1113.1	1034.2	992.5	938.8	898.2	896.1
62.5°	12159.2	8920.6	1491.5	893.8	957.5	1018.8	988.1	946.5	891.6	852.2	852.2
65°	13979.8	10504.3	1262.3	796.2	875.1	926.7	938.8	897.1	840.1	798.4	800.6
67.5°	15515.1	11497.8	955.2	715.0	790.7	852.2	886.1	845.5	785.3	744.7	745.8
70°	15430.7	10776.2	729.3	635.0	716.2	778.7	822.6	790.7	726.0	687.7	691.0
72.5°	13705.6	9015.0	590.0	553.8	640.5	701.9	754.5	730.4	664.6	627.3	627.3
75°	10068.9	6399.3	471.6	471.6	546.1	621.9	680.0	664.6	604.2	578.0	570.3
77.5°	4244.2	2684.8	369.6	391.5	454.1	534.1	606.5	611.9	559.3	592.2	537.4
80°	1128.5	740.3	281.9	308.2	356.4	440.9	527.5	525.3	468.3	437.6	406.9
82.5°	429.9	291.7	200.7	217.2	257.7	337.7	417.9	431.0	374.0	323.5	323.5
85°	165.6	125.0	123.9	130.5	150.3	223.8	315.8	326.8	281.9	239.1	246.7
87.5°	42.7	37.3	46.0	43.9	69.1	119.5	180.9	187.6	172.2	99.8	142.6
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)