

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: P964045

Luminaire Tested: **NAV-SB3B-735-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964045
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-SB3B-735-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

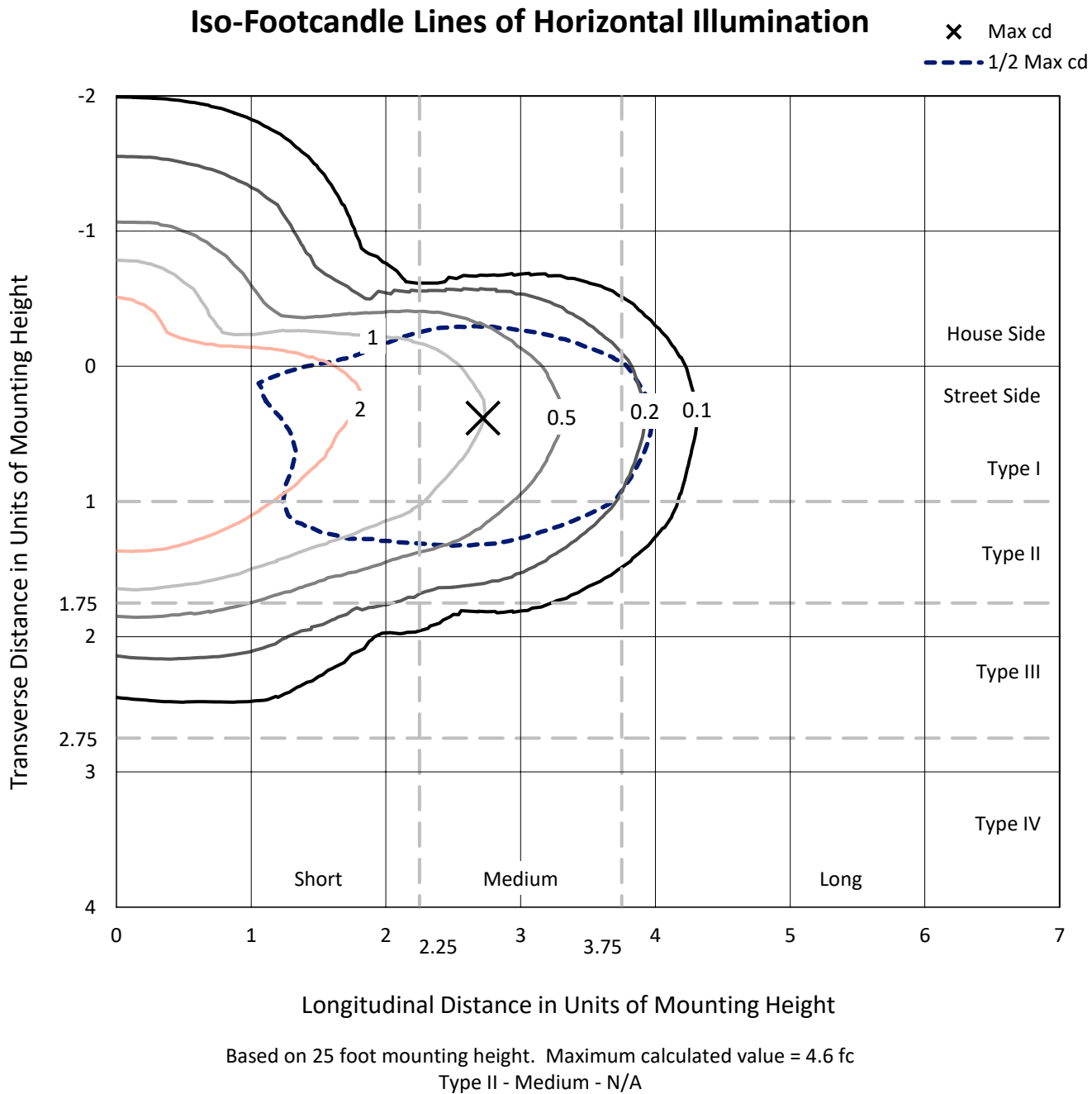
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17159.5 lumens
Efficiency: N/A
Efficacy: 157.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 109.2
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

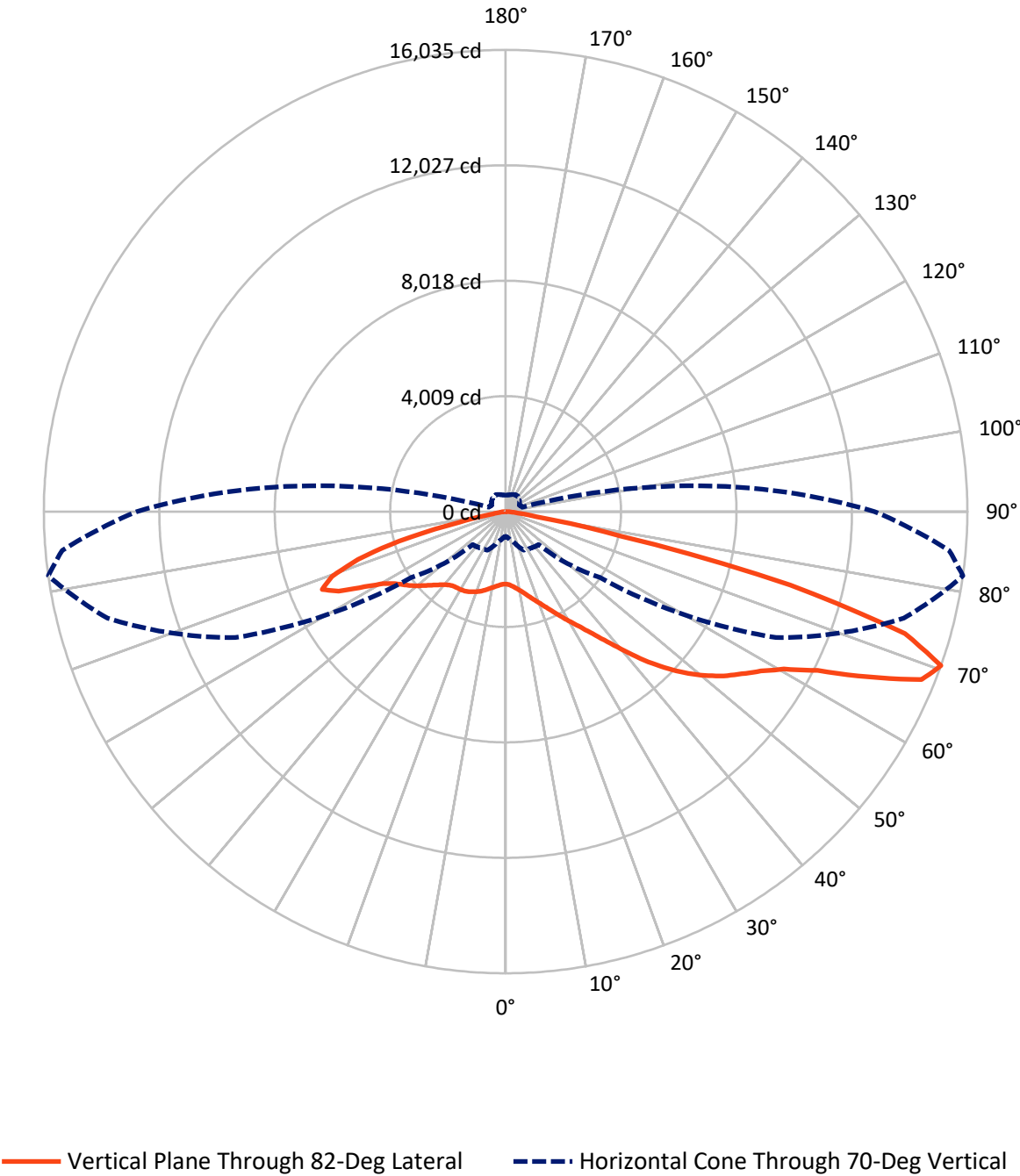


REPORT NUMBER: P964045
CATALOG NUMBER: NAV-SB3B-735-U-T2



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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4230.2	0.0	4230.2
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	12929.3	0.0	12929.3
	% Fixture	75.3	0.0	75.3
Total	Lumens	17159.5	0.0	17159.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.5	1.4
10°-20°	682.5	4.0
20°-30°	1141.7	6.7
30°-40°	1783.6	10.4
40°-50°	2840.6	16.6
50°-60°	3953.0	23.0
60°-70°	4135.0	24.1
70°-80°	2161.2	12.6
80°-90°	224.4	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°	17159.5	100.0
0°-180°	17159.5	100.0

Coefficient of Utilization



REPORT NUMBER: P964045

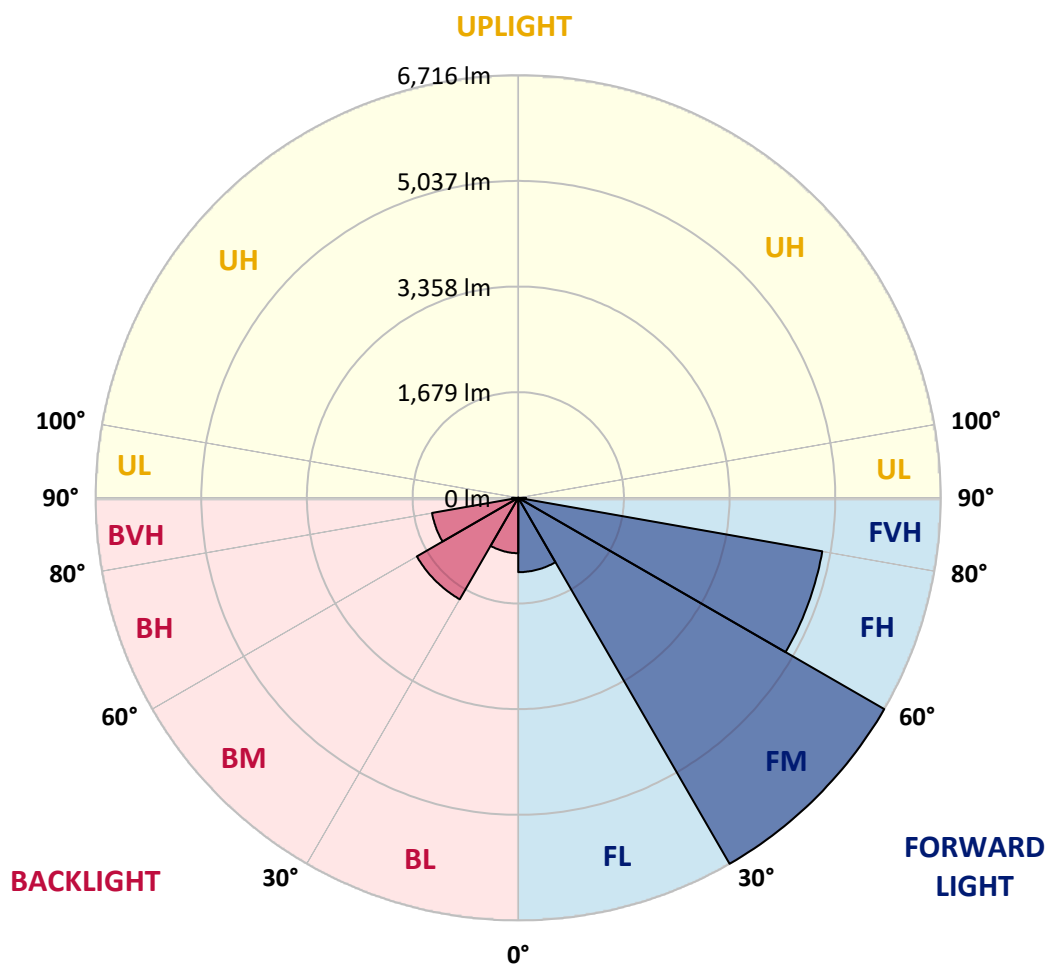
CATALOG NUMBER: NAV-SB3B-735-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1181.6	6.9			
FM	(30°-60°)	6716.1	39.1			
FH	(60°-80°)	4906.0	28.6			G2/5000
FVH	(80°-90°)	125.6	0.7			G2/225
BL	(0°-30°)	880.0	5.1	B2/1000		
BM	(30°-60°)	1861.1	10.8	B2/2500		
BH	(60°-80°)	1390.3	8.1	B3/2500		G3/2500
BVH	(80°-90°)	98.8	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



REPORT NUMBER: P964045

CATALOG NUMBER: NAV-SB3B-735-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2515.8	2515.8	2515.8	2515.8	2515.8	2515.8	2515.8	2515.8	2515.8	2515.8	2515.8
2.5°	2575.9	2590.5	2585.9	2581.4	2581.4	2575.0	2574.1	2565.0	2557.7	2545.9	2543.1
5°	2608.6	2624.2	2622.4	2625.9	2637.8	2640.5	2643.3	2637.8	2623.3	2608.6	2602.3
7.5°	2579.5	2596.8	2602.3	2624.2	2660.6	2693.4	2717.9	2727.9	2714.3	2693.4	2683.3
10°	2481.2	2500.3	2519.4	2571.3	2636.0	2713.4	2779.0	2818.1	2815.4	2795.4	2778.1
12.5°	2281.8	2301.8	2342.8	2443.9	2562.2	2698.8	2820.8	2902.8	2931.0	2916.4	2886.4
15°	2122.5	2139.8	2170.7	2274.5	2428.4	2636.0	2836.3	2995.7	3067.6	3059.4	3022.9
17.5°	2117.9	2125.1	2144.3	2193.5	2311.9	2537.7	2819.9	3086.7	3224.2	3223.3	3177.8
20°	2198.0	2200.8	2211.6	2221.7	2289.0	2463.0	2778.1	3162.3	3399.9	3399.9	3350.7
22.5°	2309.1	2307.3	2318.2	2309.1	2341.9	2456.6	2751.6	3228.7	3595.7	3610.3	3548.3
25°	2475.8	2466.7	2463.9	2443.0	2449.3	2515.8	2780.7	3304.3	3827.9	3857.9	3780.5
27.5°	2697.9	2683.3	2673.3	2625.0	2608.6	2637.8	2870.0	3395.4	4086.5	4138.3	4040.0
30°	2987.5	2961.0	2946.5	2862.7	2803.6	2808.1	3004.8	3516.5	4356.9	4440.7	4316.0
32.5°	3382.6	3341.7	3302.6	3165.0	3056.7	3021.2	3178.6	3684.1	4650.1	4784.0	4623.7
35°	3825.2	3792.4	3750.5	3538.3	3371.7	3289.7	3413.6	3918.1	4993.4	5205.5	4997.0
37.5°	4251.3	4223.0	4243.1	3957.2	3742.3	3623.0	3721.4	4232.1	5416.7	5730.0	5465.0
40°	4691.9	4670.1	4672.9	4399.7	4149.3	4015.4	4094.7	4626.4	5902.1	6353.7	6027.7
42.5°	5170.9	5154.5	5099.9	4857.7	4576.3	4451.6	4524.5	5081.6	6422.9	7063.9	6645.1
45°	5707.2	5697.2	5646.2	5368.5	5046.2	4906.0	5004.3	5584.3	6946.4	7732.2	7265.1
47.5°	6170.7	6178.9	6172.5	5938.5	5604.3	5398.6	5516.0	6108.8	7433.6	8360.5	7859.7
50°	6393.7	6436.6	6499.4	6426.5	6219.0	6009.5	6032.2	6615.0	7897.9	8949.6	8429.7
52.5°	6277.2	6358.3	6529.5	6646.0	6726.2	6682.4	6621.4	7117.6	8335.0	9481.4	8968.8
55°	5842.9	5956.7	6240.8	6522.2	6930.9	7248.7	7328.9	7674.9	8761.2	9949.4	9478.7
57.5°	5051.6	5236.5	5491.4	6060.5	6748.9	7522.8	8153.8	8447.9	9212.8	10449.3	10012.2
60°	3694.9	3942.6	4259.5	5106.2	6111.5	7376.2	8855.8	9635.2	9854.7	11096.6	10706.9
62.5°	2364.7	2517.6	2809.0	3606.7	4762.0	6625.0	9070.7	11119.4	10942.8	12158.3	11748.6
65°	1618.9	1717.3	1984.1	2432.0	3078.5	4931.5	8495.3	12232.0	12670.9	13841.0	13529.6
67.5°	1176.4	1251.1	1478.7	1871.1	2005.9	2918.3	6592.3	12181.1	14350.9	15574.7	15090.3
70°	857.7	910.5	1101.8	1478.7	1543.3	1623.5	3993.6	10354.6	14314.4	16035.4	15455.4
72.5°	635.6	672.0	800.3	1147.3	1249.3	1096.2	1976.8	7525.6	12300.4	14503.9	14038.6
75°	459.8	487.2	581.8	877.7	999.8	835.0	986.2	4397.9	8580.0	10202.5	10284.4
77.5°	351.5	372.4	434.3	642.9	800.3	626.5	611.9	2023.2	4068.2	4088.3	4317.7
80°	282.3	295.9	329.6	452.5	613.7	468.9	398.8	816.7	1285.7	1088.0	1141.8
82.5°	207.6	230.3	278.6	317.8	438.9	323.3	243.1	412.5	488.9	420.7	424.4
85°	118.4	133.9	168.4	227.7	280.4	197.6	139.3	183.1	227.7	186.7	166.7
87.5°	41.9	54.6	59.1	89.3	122.0	81.9	53.7	52.8	74.6	55.6	46.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P964045

CATALOG NUMBER: NAV-SB3B-735-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2515.8	2515.8	2515.8	2515.8	2515.8	2515.8	2515.8	2515.8	2515.8	2515.8	2515.8
2.5°	2534.0	2529.5	2511.2	2486.6	2461.1	2436.6	2428.4	2411.1	2399.2	2392.9	2400.1
5°	2585.0	2570.4	2527.6	2473.0	2415.6	2353.7	2310.0	2270.0	2240.9	2213.5	2224.5
7.5°	2657.8	2632.3	2558.6	2463.0	2361.0	2258.1	2181.6	2123.4	2084.2	2058.7	2064.1
10°	2742.5	2703.3	2590.5	2447.5	2290.0	2142.5	2052.4	2002.2	1977.6	1964.0	1967.7
12.5°	2840.0	2784.4	2623.3	2412.0	2181.6	2013.2	1951.3	1936.7	1937.7	1938.5	1940.3
15°	2960.1	2882.7	2649.6	2334.6	2040.5	1914.0	1903.0	1926.7	1951.3	1963.1	1962.2
17.5°	3095.8	2986.5	2654.2	2207.1	1902.1	1850.2	1884.8	1935.8	1973.1	1989.5	1993.1
20°	3241.5	3092.1	2621.4	2026.8	1788.3	1798.3	1860.2	1925.8	1966.8	1987.7	1993.1
22.5°	3408.1	3205.1	2543.1	1837.4	1695.5	1741.9	1814.7	1878.4	1921.3	1942.2	1947.6
25°	3598.5	3331.7	2420.2	1678.1	1615.3	1678.1	1750.9	1803.8	1838.3	1857.5	1862.9
27.5°	3809.6	3463.7	2256.3	1551.5	1545.2	1612.5	1672.7	1713.6	1731.8	1746.4	1751.8
30°	4021.8	3583.8	2057.8	1455.9	1484.2	1548.0	1590.7	1608.9	1614.4	1617.1	1623.5
32.5°	4251.3	3687.6	1849.3	1376.7	1425.9	1485.1	1510.5	1518.7	1493.3	1476.0	1481.4
35°	4529.0	3798.8	1645.3	1313.9	1368.6	1419.5	1427.7	1420.4	1390.4	1354.8	1356.7
37.5°	4872.2	3937.1	1482.4	1269.3	1314.8	1348.5	1338.4	1336.7	1339.4	1297.5	1300.2
40°	5292.9	4117.4	1363.0	1234.7	1271.1	1278.4	1250.2	1265.7	1279.3	1215.5	1217.4
42.5°	5760.0	4335.0	1287.5	1211.0	1234.7	1217.4	1173.6	1190.9	1189.2	1105.4	1104.4
45°	6236.2	4571.8	1261.1	1193.7	1201.0	1166.3	1118.2	1122.7	1084.4	1008.9	1011.6
47.5°	6709.8	4825.8	1277.5	1179.2	1159.1	1119.9	1082.6	1062.6	1006.1	949.7	949.7
50°	7174.1	5092.6	1337.5	1150.0	1101.8	1079.0	1051.6	1016.2	956.0	907.8	904.2
52.5°	7604.8	5361.3	1405.0	1101.8	1029.8	1043.4	1026.1	985.2	926.0	876.9	877.7
55°	8012.7	5629.8	1431.3	1035.2	962.5	1012.5	1002.4	926.9	855.9	815.8	812.2
57.5°	8457.1	5953.1	1402.2	950.6	907.8	977.0	938.8	855.0	814.1	783.9	781.3
60°	9072.6	6460.3	1339.4	845.9	855.9	924.1	858.6	824.0	779.4	745.7	743.9
62.5°	10095.1	7406.2	1238.3	742.1	794.9	845.9	820.4	785.8	740.3	707.5	707.5
65°	11606.6	8721.1	1048.1	661.0	726.6	769.4	779.4	744.8	697.5	662.9	664.7
67.5°	12881.3	9546.0	793.0	593.7	656.5	707.5	735.7	702.0	651.9	618.3	619.2
70°	12811.2	8946.9	605.5	527.2	594.6	646.5	682.9	656.5	602.8	570.9	573.6
72.5°	11378.9	7484.6	489.8	459.8	531.8	582.7	626.5	606.4	551.8	520.8	520.8
75°	8359.6	5313.0	391.5	391.5	453.5	516.3	564.6	551.8	501.7	479.8	473.4
77.5°	3523.7	2229.0	306.9	325.0	377.0	443.4	503.5	508.1	464.3	491.7	446.2
80°	937.0	614.6	234.0	255.8	295.9	366.0	438.0	436.1	388.8	363.3	337.8
82.5°	356.9	242.2	166.7	180.3	214.0	280.4	347.0	357.8	310.5	268.7	268.7
85°	137.5	103.8	102.9	108.3	124.7	185.7	262.2	271.3	234.0	198.5	204.9
87.5°	35.5	31.0	38.2	36.4	57.4	99.2	150.3	155.7	143.0	82.8	118.4
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)