

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: P970528

Luminaire Tested: **NAV-SB6B-830-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970528
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-830-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS
Light Source: -
Ballast/Driver: -

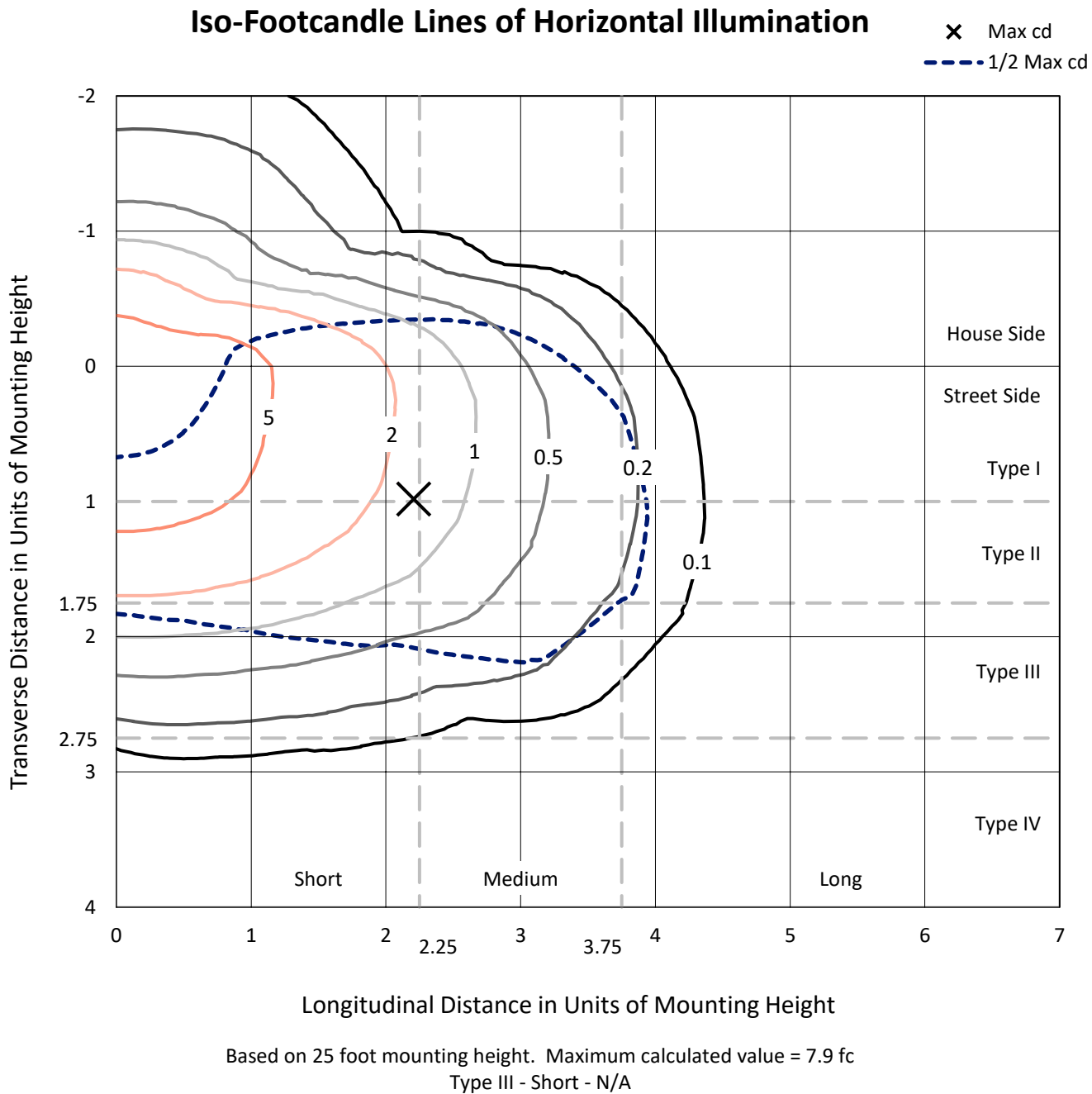
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31471.6 lumens
Efficiency: N/A
Efficacy: 142.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 220.4
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

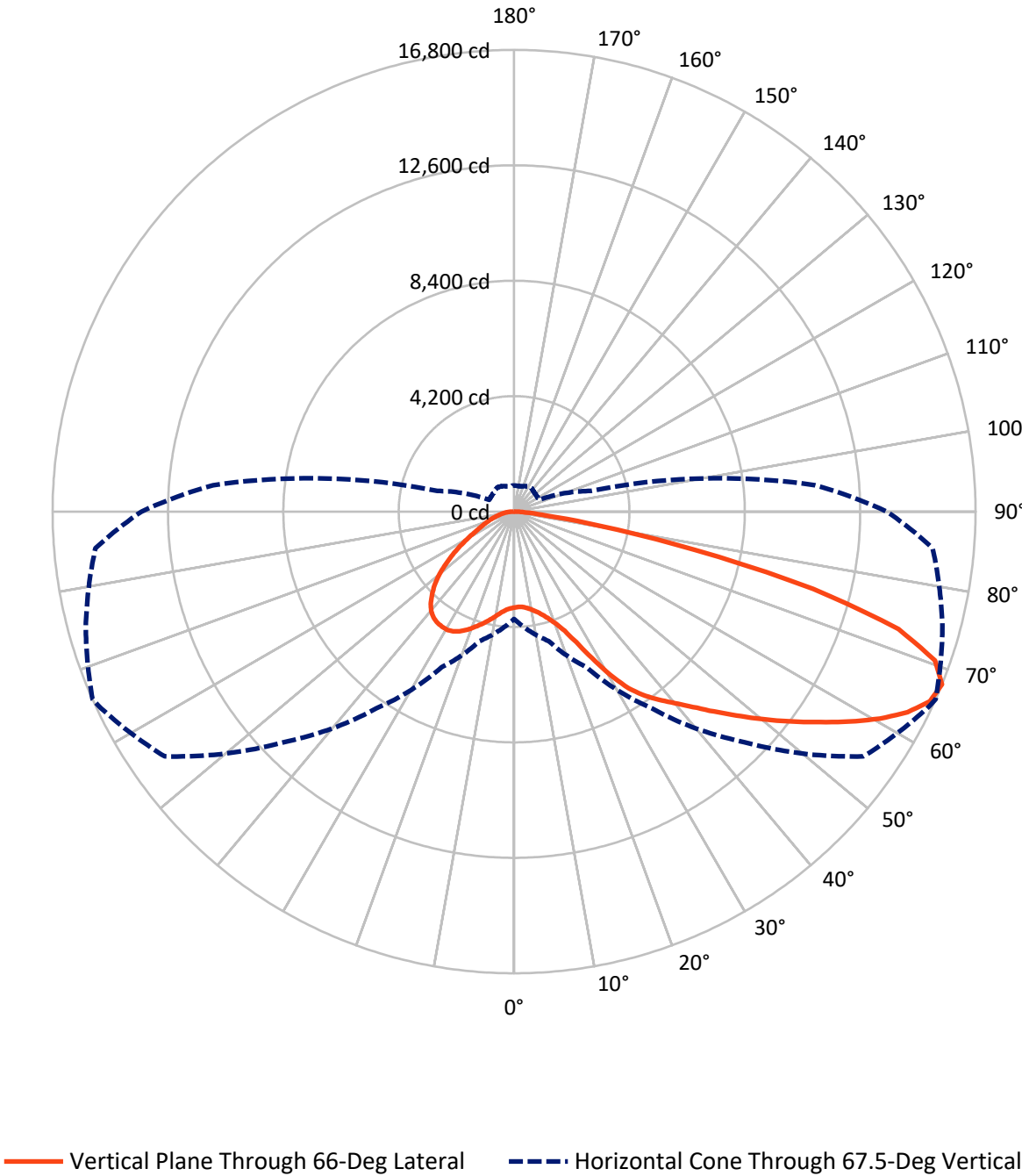


REPORT NUMBER: P970528
CATALOG NUMBER: NAV-SB6B-830-U-T3



REPORT NUMBER: P970528
CATALOG NUMBER: NAV-SB6B-830-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P970528

CATALOG NUMBER: NAV-SB6B-830-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7825.3	0.0	7825.3
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	23646.3	0.0	23646.3
	% Fixture	75.1	0.0	75.1
Total	Lumens	31471.6	0.0	31471.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.1	1.1
10°-20°	1143.4	3.6
20°-30°	2203.9	7.0
30°-40°	3864.2	12.3
40°-50°	5744.7	18.3
50°-60°	7282.0	23.1
60°-70°	7125.3	22.6
70°-80°	3398.8	10.8
80°-90°	363.2	1.2
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°	31471.6	100.0
0°-180°	31471.6	100.0

Coefficient of Utilization



REPORT NUMBER: P970528

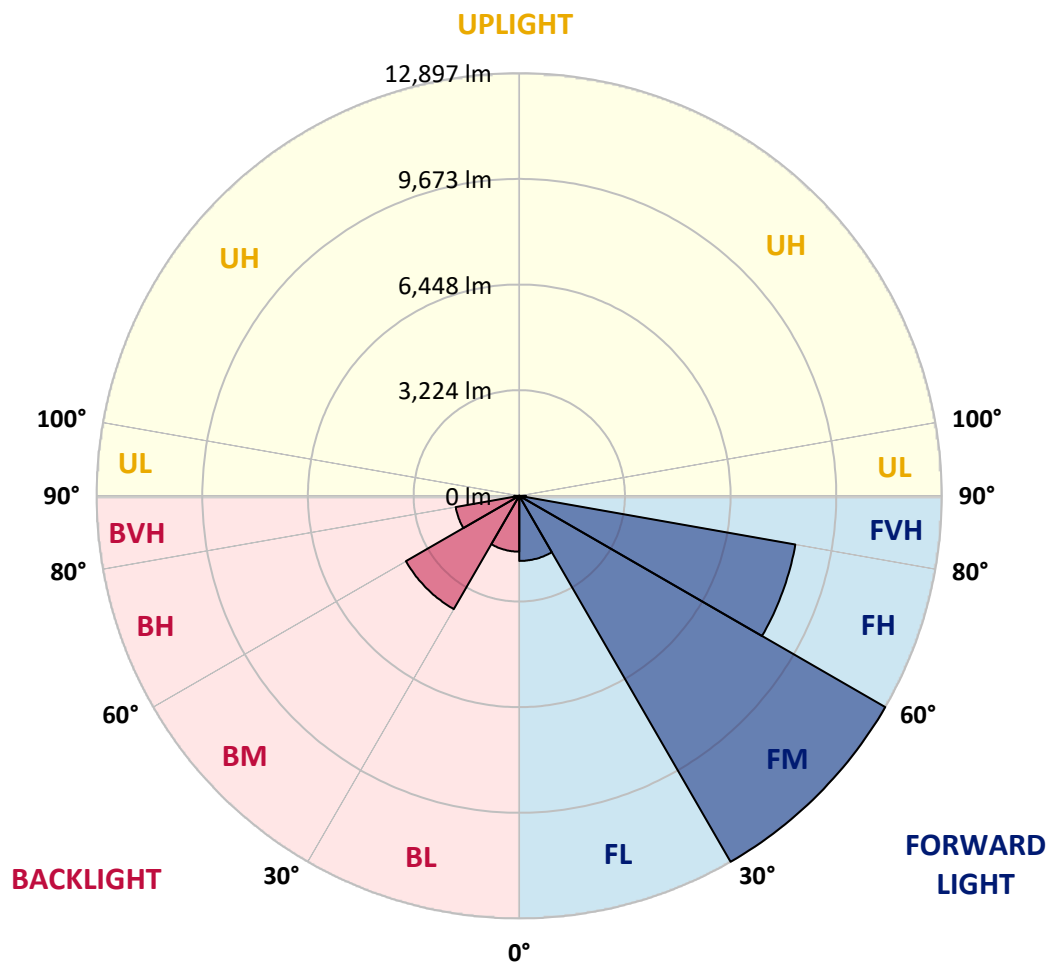
CATALOG NUMBER: NAV-SB6B-830-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1988.7	6.3			
FM	(30°-60°)	12896.8	41.0			
FH	(60°-80°)	8554.8	27.2			G4/12000
FVH	(80°-90°)	205.9	0.7			G2/225
BL	(0°-30°)	1704.6	5.4	B3/2500		
BM	(30°-60°)	3994.1	12.7	B3/5000		
BH	(60°-80°)	1969.3	6.3	B3/2500		G3/2500
BVH	(80°-90°)	157.3	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-G4

Type III Short



REPORT NUMBER: P970528

CATALOG NUMBER: NAV-SB6B-830-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3490.6	3490.6	3490.6	3490.6	3490.6	3490.6	3490.6	3490.6	3490.6	3490.6	3490.6
2.5°	3454.2	3474.0	3469.1	3460.8	3459.2	3462.6	3467.5	3472.4	3470.8	3479.1	3492.3
5°	3444.3	3464.2	3462.6	3462.6	3469.1	3482.3	3490.6	3498.8	3490.6	3500.6	3518.7
7.5°	3451.0	3465.8	3472.4	3479.1	3495.6	3520.4	3540.2	3558.4	3548.4	3560.0	3583.2
10°	3535.2	3546.8	3553.5	3553.5	3565.1	3593.1	3613.0	3646.0	3637.8	3656.0	3685.7
12.5°	3689.1	3700.7	3700.7	3694.0	3702.3	3720.4	3727.1	3763.5	3748.5	3778.4	3808.1
15°	3877.6	3900.7	3882.5	3870.9	3874.2	3892.4	3890.8	3918.9	3904.0	3928.8	3955.3
17.5°	4085.9	4115.7	4085.9	4084.2	4077.7	4097.4	4099.1	4123.9	4097.4	4115.7	4133.8
20°	4332.3	4373.6	4348.8	4357.1	4342.2	4350.4	4358.7	4395.1	4353.8	4367.0	4362.0
22.5°	4679.5	4729.1	4702.7	4734.1	4724.1	4717.6	4715.9	4780.4	4715.9	4720.8	4672.9
25°	5185.5	5245.0	5198.7	5241.7	5241.7	5263.2	5288.0	5370.7	5263.2	5231.8	5107.8
27.5°	5932.9	5992.5	5901.4	5927.9	5919.7	5972.6	5946.1	6151.1	6035.4	5984.2	5734.5
30°	6832.4	6938.2	6766.2	6759.7	6751.4	6835.7	6873.8	7009.4	6891.9	6840.6	6539.7
32.5°	7804.7	7915.5	7710.5	7650.9	7619.5	7670.8	7639.3	7748.5	7667.4	7588.1	7216.0
35°	8833.2	8942.3	8747.2	8631.4	8505.8	8398.3	8285.9	8314.0	8237.9	8117.2	7732.0
37.5°	9805.5	10005.5	9798.9	9674.9	9443.3	9233.3	8919.1	8788.6	8717.4	8606.6	8218.0
40°	10795.9	10910.0	10753.0	10647.1	10395.8	10066.7	9564.1	9287.9	9192.0	9084.6	8755.4
42.5°	11525.2	11634.3	11549.9	11477.2	11280.4	10898.4	10248.7	9903.0	9764.2	9643.4	9364.0
45°	12103.9	12184.9	12132.0	12158.4	12074.1	11703.8	10958.0	10562.8	10418.9	10271.7	10051.9
47.5°	12337.0	12423.0	12507.4	12664.5	12808.3	12535.4	11720.3	11277.2	11125.0	10974.6	10757.9
50°	12310.6	12398.2	12643.0	12976.9	13423.4	13332.5	12523.9	12037.7	11897.2	11725.2	11525.2
52.5°	12098.9	12198.1	12512.3	13067.9	13779.0	13929.4	13342.4	12823.2	12690.9	12485.8	12285.8
55°	11543.3	11602.9	12074.1	12861.2	13863.2	14346.1	14144.4	13659.9	13527.5	13241.6	13023.2
57.5°	10513.2	10599.2	11285.4	12304.0	13651.6	14628.8	14848.8	14539.5	14412.2	14000.5	13772.3
60°	9168.8	9306.1	10091.5	11368.1	13112.5	14627.2	15488.7	15404.3	15298.5	14747.9	14509.8
62.5°	7647.6	7806.3	8562.0	10045.2	12170.0	14212.1	15888.8	16128.6	16074.0	15437.4	15133.2
65°	5873.4	5982.5	6734.9	8333.9	10703.4	13320.9	15935.2	16623.0	16632.9	15961.6	15458.9
67.5°	3910.6	4224.7	4878.0	6253.6	8738.9	11864.2	15528.3	16704.0	16800.0	16141.8	15295.3
70°	1908.1	2321.5	2961.5	4064.4	6253.6	9630.2	14465.1	16039.3	16252.6	15616.0	14319.7
72.5°	792.0	926.0	1274.9	2005.7	3589.9	6498.4	12328.8	14236.9	14632.2	13836.8	12039.4
75°	534.1	578.7	729.2	1028.5	1635.4	3204.6	8891.1	10615.7	11252.3	10450.4	8542.1
77.5°	411.7	439.8	530.7	719.2	972.3	1212.1	4758.9	6397.5	6726.6	6227.2	4444.7
80°	324.1	345.6	396.9	524.2	689.5	648.2	1622.2	2898.7	3088.8	2591.1	1428.6
82.5°	281.1	289.4	284.4	355.5	458.1	378.6	532.5	1069.8	1180.6	856.5	466.3
85°	203.4	226.5	236.5	220.0	243.0	191.8	218.2	378.6	416.7	372.1	262.9
87.5°	82.7	122.4	150.5	142.2	89.3	54.5	67.8	110.8	127.3	138.9	86.0
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: P970528

CATALOG NUMBER: NAV-SB6B-830-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3490.6	3490.6	3490.6	3490.6	3490.6	3490.6	3490.6	3490.6	3490.6	3490.6	3490.6
2.5°	3493.9	3505.5	3513.8	3523.6	3530.3	3540.2	3560.0	3571.6	3573.3	3581.6	3579.9
5°	3525.4	3541.9	3560.0	3586.5	3616.3	3641.1	3679.1	3705.6	3715.5	3723.7	3722.1
7.5°	3593.1	3616.3	3649.3	3695.6	3738.7	3771.7	3818.0	3849.4	3880.9	3892.4	3894.1
10°	3694.0	3727.1	3775.1	3837.9	3884.1	3927.2	3975.1	4001.6	4033.0	4046.2	4052.8
12.5°	3819.7	3854.4	3917.2	4004.9	4047.8	4077.7	4094.2	4087.5	4094.2	4105.7	4109.0
15°	3963.6	4001.6	4072.6	4166.9	4196.7	4170.2	4133.8	4100.8	4095.8	4099.1	4110.7
17.5°	4133.8	4161.9	4244.6	4324.0	4302.5	4193.4	4114.0	4061.0	4034.6	4026.4	4038.0
20°	4371.9	4371.9	4439.8	4489.4	4345.5	4160.3	4036.2	3950.3	3895.7	3872.6	3867.6
22.5°	4661.3	4634.8	4677.9	4643.1	4337.2	4067.7	3895.7	3746.9	3664.3	3631.2	3626.2
25°	5028.4	4997.0	4985.4	4770.5	4277.7	3920.5	3641.1	3460.8	3388.1	3369.9	3373.2
27.5°	5582.4	5503.0	5352.5	4839.9	4168.6	3689.1	3343.4	3176.5	3135.1	3136.8	3141.7
30°	6319.8	6161.1	5792.4	4851.4	3990.0	3361.6	3039.2	2920.1	2900.3	2908.5	2936.7
32.5°	7002.7	6852.2	6242.1	4798.5	3715.5	3040.9	2766.4	2687.0	2657.2	2667.2	2680.4
35°	7538.5	7497.2	6658.8	4724.1	3378.2	2739.9	2521.6	2453.8	2395.9	2382.7	2392.7
37.5°	8044.5	8027.9	6971.3	4620.0	3044.1	2526.6	2324.9	2235.6	2151.3	2104.9	2106.6
40°	8600.1	8583.6	7176.3	4459.6	2748.1	2341.4	2148.0	2030.5	1926.4	1842.0	1850.3
42.5°	9225.1	9127.5	7273.9	4229.8	2496.8	2184.3	2004.1	1845.3	1708.1	1630.4	1635.4
45°	9908.0	9688.1	7272.3	3937.0	2285.2	2040.5	1850.3	1625.4	1498.1	1425.4	1422.1
47.5°	10632.2	10223.9	7183.0	3613.0	2080.1	1881.7	1612.2	1440.2	1355.9	1311.3	1301.3
50°	11379.7	10724.9	7030.9	3240.9	1870.1	1701.5	1463.4	1346.0	1281.5	1240.1	1225.3
52.5°	12082.4	11179.6	6847.3	2819.3	1656.8	1526.2	1397.3	1306.3	1238.5	1192.2	1172.4
55°	12735.5	11571.4	6587.7	2387.7	1483.2	1408.9	1365.8	1289.8	1212.1	1157.4	1136.0
57.5°	13316.0	11826.1	6139.5	1982.6	1359.3	1327.8	1332.7	1261.7	1172.4	1126.1	1096.3
60°	13798.8	12012.9	5476.5	1607.2	1258.4	1248.4	1281.5	1208.8	1104.5	1051.6	1028.5
62.5°	14088.1	12009.6	4662.9	1316.2	1172.4	1175.7	1213.7	1142.6	1036.8	987.2	972.3
65°	14063.3	11715.3	3770.1	1126.1	1089.7	1093.0	1142.6	1069.8	980.5	950.8	949.1
67.5°	13565.6	10997.6	2892.0	1002.0	998.8	1013.6	1071.5	1020.2	945.9	942.5	947.5
70°	12218.0	9507.8	2083.4	902.8	904.5	926.0	1002.0	988.8	927.6	934.3	932.5
72.5°	9797.2	7249.1	1398.9	798.7	800.3	835.1	935.9	964.0	909.5	997.1	1010.3
75°	6524.8	4520.8	899.5	687.9	689.5	734.2	878.0	916.0	859.9	993.7	1002.0
77.5°	3135.1	2032.2	651.5	578.7	578.7	620.1	759.0	820.2	732.6	772.2	707.8
80°	1083.1	763.9	512.6	466.3	456.3	484.5	639.9	711.0	631.6	582.0	545.7
82.5°	426.6	396.9	411.7	362.1	329.0	347.3	497.7	587.0	464.6	420.0	418.3
85°	244.8	258.0	291.0	239.7	190.1	213.3	365.4	421.7	350.5	309.2	315.8
87.5°	66.1	90.9	134.0	124.0	86.0	90.9	173.6	233.2	201.7	155.4	160.4
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)