

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: P971090

Luminaire Tested: **NAV-SB6C-835-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971090
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-835-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43092 lumens
Efficiency: N/A
Efficacy: 143.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 300.9
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



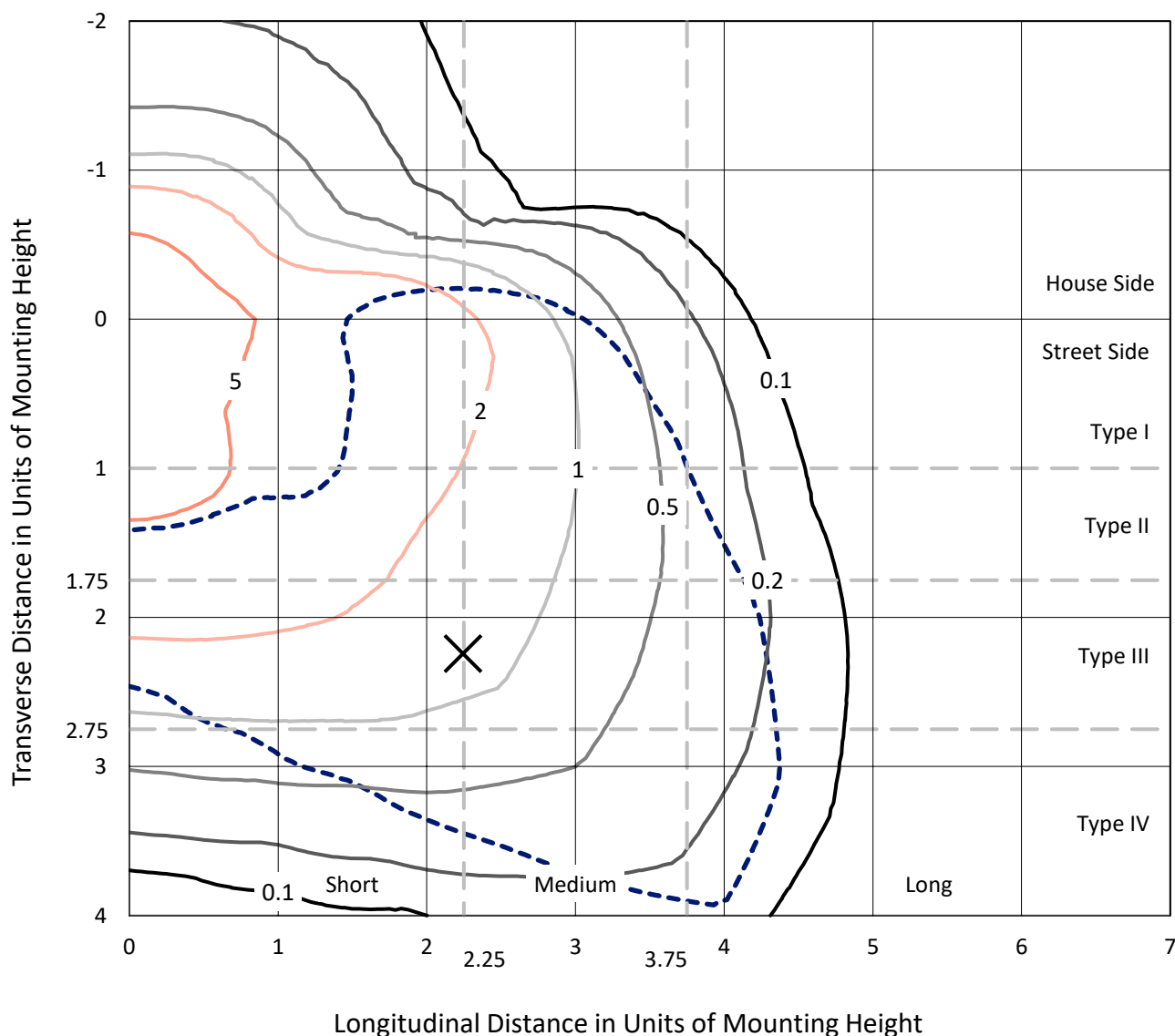
REPORT NUMBER: P971090

CATALOG NUMBER: NAV-SB6C-835-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

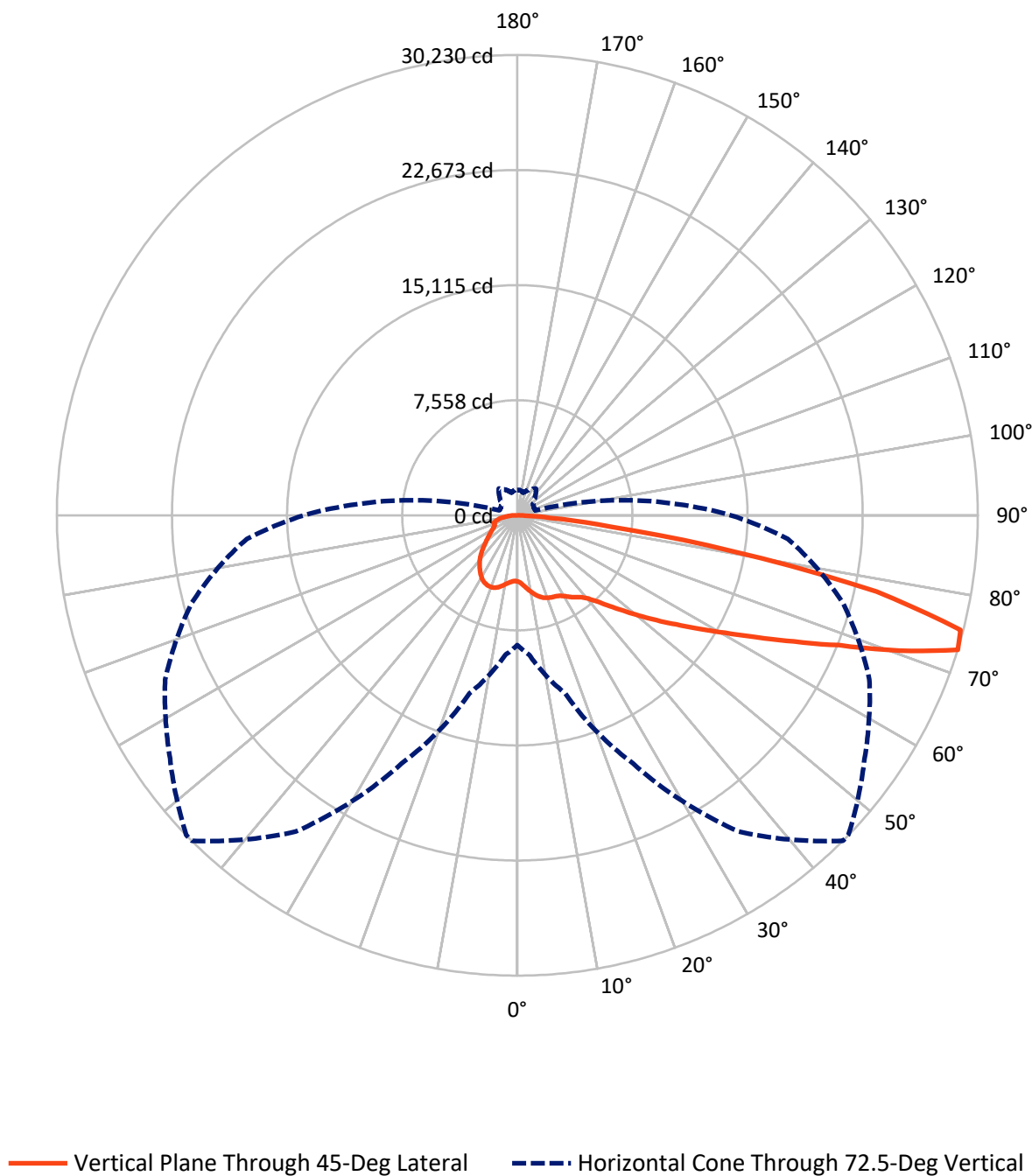


Based on 25 foot mounting height. Maximum calculated value = 8.6 fc

Type IV - Short - N/A

REPORT NUMBER: P971090
CATALOG NUMBER: NAV-SB6C-835-U-T4W

Luminous Intensity Polar Plot



REPORT NUMBER: P971090

CATALOG NUMBER: NAV-SB6C-835-U-T4W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9741.6	0.0	9741.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	33350.4	0.0	33350.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	43092.0	0.0	43092.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.5	1.0
10°-20°	1475.2	3.4
20°-30°	2566.2	6.0
30°-40°	3678.8	8.5
40°-50°	5179.9	12.0
50°-60°	7934.1	18.4
60°-70°	11493.8	26.7
70°-80°	9178.5	21.3
80°-90°	1143.1	2.7
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°	43092.0	100.0
0°-180°	43092.0	100.0

Coefficient of Utilization



REPORT NUMBER: P971090

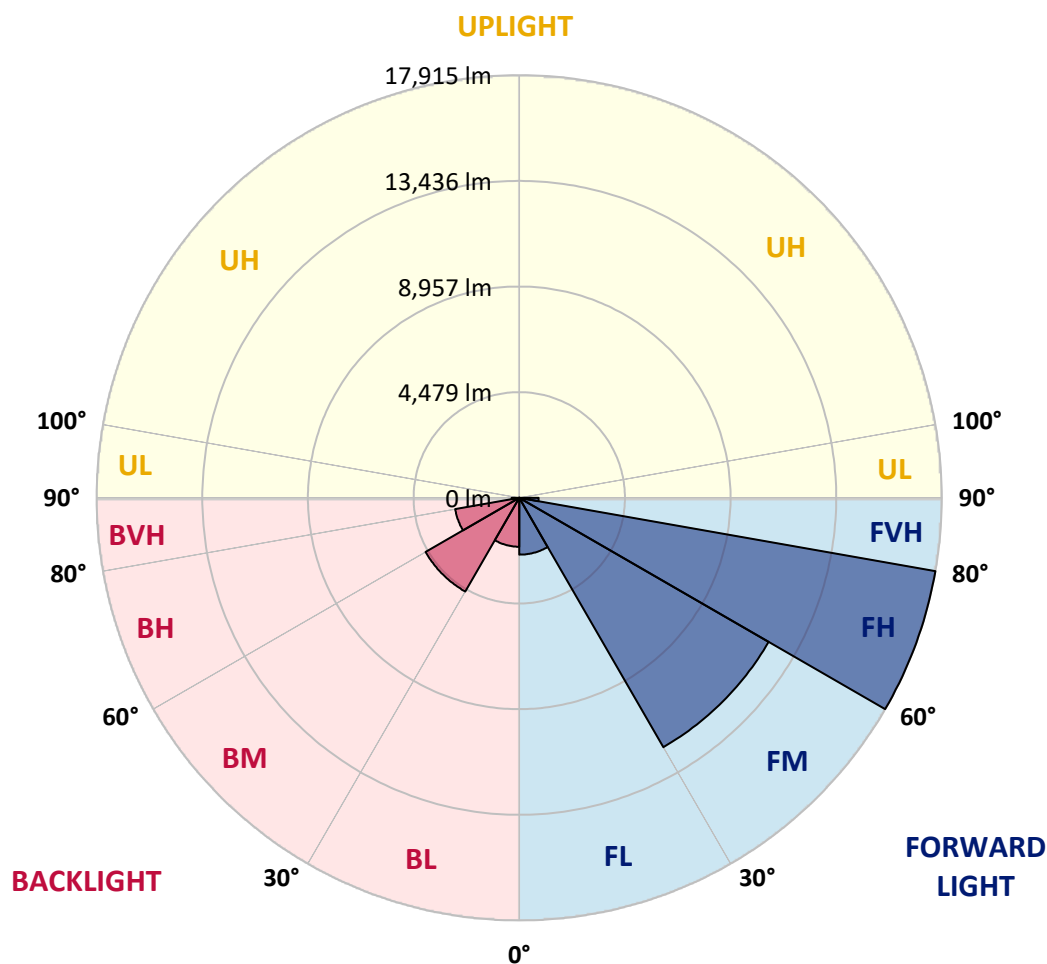
CATALOG NUMBER: NAV-SB6C-835-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2409.8	5.6			
FM	(30°-60°)	12205.9	28.3			
FH	(60°-80°)	17914.6	41.6			G5
FVH	(80°-90°)	820.1	1.9			G5
BL	(0°-30°)	2074.1	4.8	B3/2500		
BM	(30°-60°)	4586.9	10.6	B3/5000		
BH	(60°-80°)	2757.6	6.4	B4/5000		G4/5000
BVH	(80°-90°)	323.0	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



REPORT NUMBER: P971090

CATALOG NUMBER: NAV-SB6C-835-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	4347.1	4347.1	4347.1	4347.1	4347.1	4347.1	4347.1	4347.1	4347.1	4347.1	4347.1
2.5°	4517.4	4546.9	4519.6	4494.7	4483.3	4453.8	4451.6	4433.4	4422.1	4390.3	4381.2
5°	4833.0	4871.5	4826.1	4776.2	4730.8	4658.1	4649.1	4596.8	4537.9	4469.7	4431.2
7.5°	5189.4	5223.4	5171.1	5096.3	5016.9	4896.5	4894.3	4798.8	4705.8	4590.1	4524.2
10°	5500.4	5545.8	5475.3	5373.3	5273.3	5137.1	5121.2	5012.2	4894.3	4744.4	4644.5
12.5°	5775.1	5806.8	5738.7	5613.8	5498.1	5361.9	5341.4	5221.1	5089.4	4919.2	4792.1
15°	5993.0	6033.8	5943.0	5809.1	5686.5	5552.5	5534.4	5425.4	5293.7	5114.4	4951.0
17.5°	6136.0	6170.0	6076.9	5927.1	5809.1	5697.9	5684.2	5593.4	5477.6	5296.1	5121.2
20°	6190.4	6226.8	6129.1	5977.1	5868.1	5781.8	5775.1	5709.1	5629.7	5464.0	5287.0
22.5°	6244.9	6278.9	6151.8	5993.0	5897.5	5843.1	5840.9	5797.7	5765.9	5629.7	5457.2
25°	6465.1	6474.2	6304.0	6074.7	5938.4	5890.8	5888.5	5886.3	5899.9	5793.2	5641.1
27.5°	6655.8	6653.5	6508.2	6292.6	6081.4	5981.6	5979.3	6002.0	6045.1	5956.6	5831.7
30°	6935.0	6910.0	6737.5	6512.7	6319.8	6165.5	6151.8	6131.4	6165.5	6095.1	6022.5
32.5°	7527.5	7448.1	7168.8	6769.3	6517.4	6399.3	6381.1	6254.0	6267.6	6224.5	6188.1
35°	8376.5	8272.1	7899.8	7255.1	6762.4	6594.5	6585.4	6424.3	6397.0	6358.4	6372.0
37.5°	9386.6	9257.3	8823.7	7958.8	7184.7	6821.5	6807.8	6662.6	6551.4	6510.5	6587.7
40°	10401.4	10237.9	9879.3	8816.8	7806.7	7200.6	7157.5	6937.3	6810.2	6742.0	6905.5
42.5°	11386.6	11250.4	10943.9	9779.4	8574.0	7754.5	7659.1	7282.3	7187.0	7123.4	7418.5
45°	12258.3	12135.7	11910.9	10807.7	9472.9	8508.1	8415.0	7799.9	7770.4	7770.4	8197.1
47.5°	12966.6	12939.3	12701.0	11856.5	10533.0	9366.2	9205.0	8519.5	8598.9	8721.5	9302.7
50°	13752.0	13677.1	13422.8	12889.4	11779.3	10349.1	10217.5	9402.5	9699.9	10035.9	10900.8
52.5°	14473.8	14514.7	14230.9	13965.3	13186.7	11445.6	11214.0	10444.5	11086.9	11643.1	12773.6
55°	15216.1	15218.4	15138.9	15102.7	14662.2	12657.8	12403.5	11697.6	12719.1	13409.2	14957.3
57.5°	15913.0	15917.6	16035.6	16355.7	16373.9	14056.1	13767.9	13236.6	14532.9	15236.6	17209.2
60°	16535.1	16566.9	16889.1	17638.3	17878.9	15658.8	15386.4	15055.0	16407.9	17116.2	19576.9
62.5°	16743.9	16859.7	17577.0	18641.7	19365.8	17624.7	17356.8	17159.3	18378.4	19036.6	21556.4
65°	16389.8	16655.3	18042.4	19470.2	20895.9	19960.5	19695.0	19479.3	20425.9	21045.6	23181.7
67.5°	15520.3	15863.1	18015.1	20339.7	22752.7	22770.9	22523.5	22017.2	22621.0	22859.4	23710.7
70°	13229.9	13742.9	16428.4	20664.3	24884.3	26614.0	26375.7	25072.7	24811.7	23658.4	22221.5
72.5°	8524.0	9214.1	12097.0	17992.4	25358.7	30230.2	30216.7	27830.8	25504.0	22105.8	17822.2
75°	3110.0	3532.2	5620.7	11293.4	21286.3	30046.3	30134.9	27358.7	23281.6	17075.3	11102.8
77.5°	1132.7	1239.4	1834.2	4340.4	13091.4	24107.9	24291.8	21872.0	16571.4	8569.4	4399.4
80°	594.7	653.7	939.8	1684.4	5609.3	14317.2	14605.5	12998.3	7788.6	2581.1	1318.9
82.5°	329.1	356.4	526.6	914.8	2526.5	6122.3	6294.8	5134.8	2739.9	1094.2	544.8
85°	177.0	188.4	247.4	499.4	1234.9	2122.5	2170.1	1534.5	1091.9	642.5	263.3
87.5°	52.2	63.6	81.7	158.9	483.5	476.7	488.1	304.2	431.3	324.6	86.3
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: P971090

CATALOG NUMBER: NAV-SB6C-835-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4347.1	4347.1	4347.1	4347.1	4347.1	4347.1	4347.1	4347.1	4347.1	4347.1	4347.1
2.5°	4367.6	4360.8	4335.8	4324.5	4310.8	4308.6	4319.9	4322.2	4324.5	4326.7	4335.8
5°	4408.4	4385.8	4363.0	4349.4	4354.0	4356.2	4378.9	4394.8	4406.2	4415.3	4419.8
7.5°	4487.9	4469.7	4431.2	4428.8	4435.7	4456.1	4485.6	4521.9	4542.4	4558.3	4562.8
10°	4605.9	4571.9	4526.5	4533.3	4546.9	4576.4	4637.7	4667.2	4701.3	4730.8	4724.0
12.5°	4726.3	4696.8	4644.5	4649.1	4671.7	4724.0	4783.0	4819.3	4842.0	4864.8	4873.8
15°	4882.9	4830.6	4773.9	4773.9	4814.7	4871.5	4898.8	4928.3	4941.9	4966.8	4976.0
17.5°	5044.0	4976.0	4901.0	4896.5	4946.4	4973.7	4989.6	4994.1	4998.6	5025.9	5035.0
20°	5205.3	5130.3	5023.6	5014.5	5025.9	5021.4	5019.1	5014.5	5021.4	5055.4	5069.0
22.5°	5364.1	5277.8	5130.3	5089.4	5057.7	5014.5	5012.2	5010.0	5014.5	5048.6	5071.3
25°	5550.3	5445.8	5248.3	5125.8	5019.1	4960.1	4966.8	4969.1	4973.7	5000.9	5037.3
27.5°	5752.3	5636.6	5357.4	5114.4	4921.4	4880.6	4869.3	4876.0	4891.9	4935.1	4978.2
30°	5954.3	5818.1	5457.2	5069.0	4798.8	4742.2	4705.8	4721.7	4771.7	4814.7	4862.5
32.5°	6138.2	6002.0	5536.6	4969.1	4642.2	4553.8	4506.0	4526.5	4576.4	4592.3	4649.1
35°	6353.9	6199.5	5570.7	4810.2	4472.0	4335.8	4272.2	4242.7	4267.7	4251.8	4301.7
37.5°	6594.5	6433.3	5566.2	4601.4	4272.2	4115.6	4027.0	3915.8	3863.6	3809.1	3843.2
40°	6950.9	6719.4	5511.7	4349.4	4024.8	3881.8	3722.9	3534.5	3416.4	3309.7	3316.6
42.5°	7436.7	7116.6	5411.8	4072.4	3745.6	3611.7	3396.0	3175.8	2989.6	2812.6	2796.7
45°	8160.8	7636.5	5287.0	3777.3	3443.7	3312.0	3078.2	2830.7	2619.6	2392.7	2365.4
47.5°	9205.0	8335.6	5168.9	3441.4	3125.8	3005.5	2794.5	2565.2	2315.5	2095.3	2070.3
50°	10639.7	9339.0	5059.9	3114.5	2812.6	2721.8	2553.8	2320.0	2068.0	1890.9	1879.6
52.5°	12464.8	10703.3	5014.5	2799.0	2519.8	2485.7	2351.8	2133.8	1895.5	1745.7	1734.3
55°	14560.1	12335.5	5014.5	2497.1	2263.2	2274.6	2181.5	1979.5	1772.9	1639.0	1625.3
57.5°	16698.5	13988.1	4923.7	2217.8	2045.3	2092.9	2034.0	1856.9	1670.7	1532.3	1509.6
60°	18668.9	15372.7	4556.0	1963.6	1852.4	1927.3	1888.7	1736.6	1509.6	1393.8	1375.7
62.5°	20183.0	16153.7	3847.7	1761.6	1693.5	1779.7	1759.3	1577.7	1480.1	1432.4	1416.6
65°	20941.3	16026.6	2942.0	1582.2	1559.5	1693.5	1650.4	1643.5	1566.3	1511.9	1493.7
67.5°	20475.8	14932.4	2133.8	1450.6	1482.4	1614.0	1779.7	1807.0	1664.0	1557.3	1539.1
70°	18435.0	12952.9	1589.1	1325.7	1384.8	1616.3	2029.4	1890.9	1632.2	1507.3	1486.9
72.5°	14024.4	9659.1	1232.7	1194.0	1257.6	1627.6	2140.6	1852.4	1541.4	1666.2	1652.6
75°	8020.1	5302.8	989.7	1032.9	1098.7	1520.9	2083.9	1752.4	1471.0	1530.0	1530.0
77.5°	3057.8	2038.5	817.2	874.0	883.0	1328.0	1993.1	1745.7	1400.7	1366.5	1246.3
80°	1060.2	796.8	676.5	694.6	683.3	1180.4	1911.4	1518.6	1146.4	1026.0	992.0
82.5°	433.6	397.3	535.8	513.0	485.7	917.1	1543.6	1241.7	937.6	828.6	819.5
85°	188.4	251.9	354.1	311.0	281.5	635.6	1237.2	1051.0	792.2	683.3	681.0
87.5°	38.5	95.3	149.9	140.7	145.2	424.5	878.5	746.8	560.7	419.9	329.1
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)