

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: P883489

Luminaire Tested: **NAV-SB3D-835-U-T3**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883489
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3D-835-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25771 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

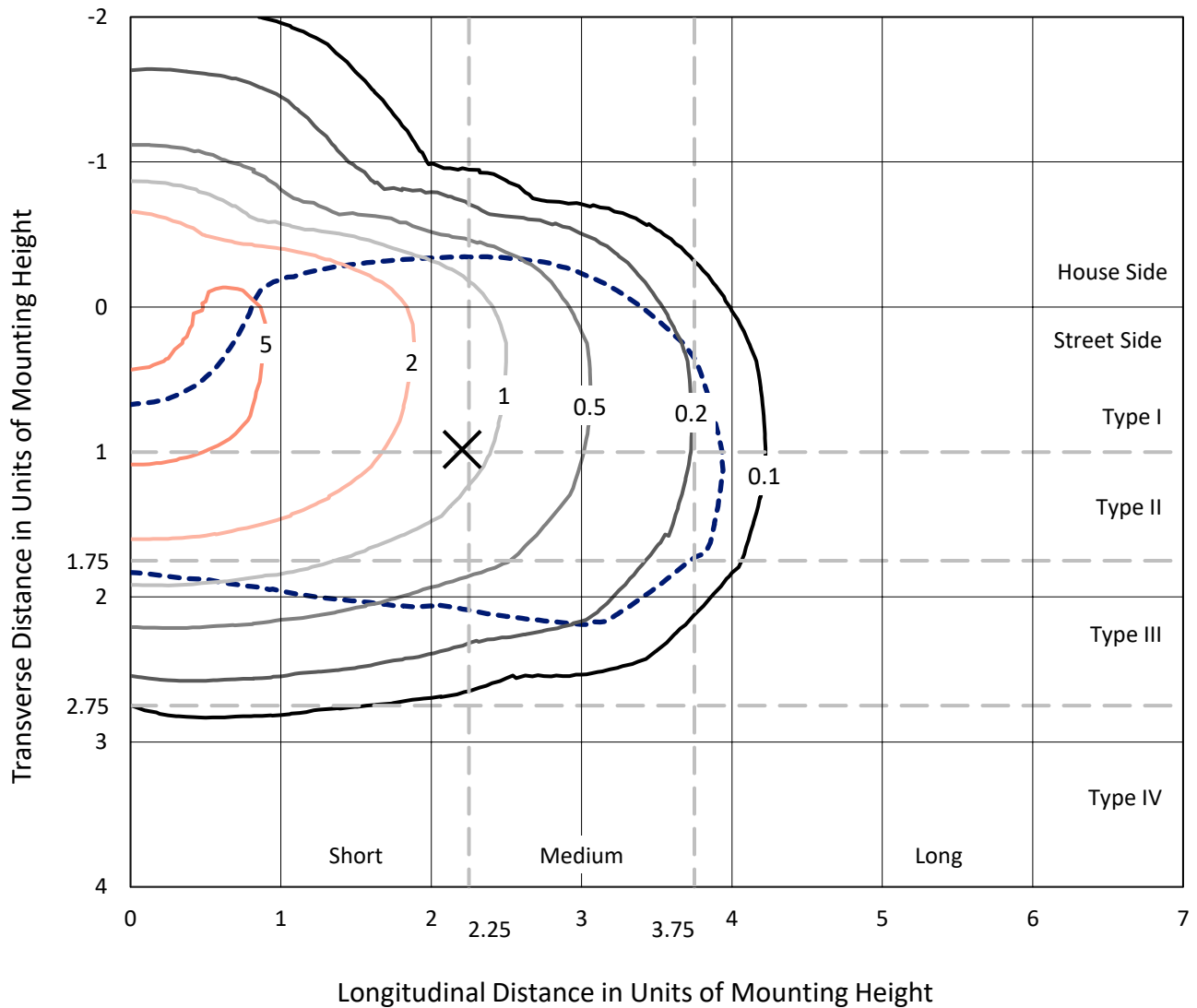
Input Watts (W): 218.1
Input Voltage (V): 120.0
Input Current (Ain): 1.84
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 2.542
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P883489
 CATALOG NUMBER: NAV-SB3D-835-U-T3

Iso-Footcandle Lines of Horizontal Illumination

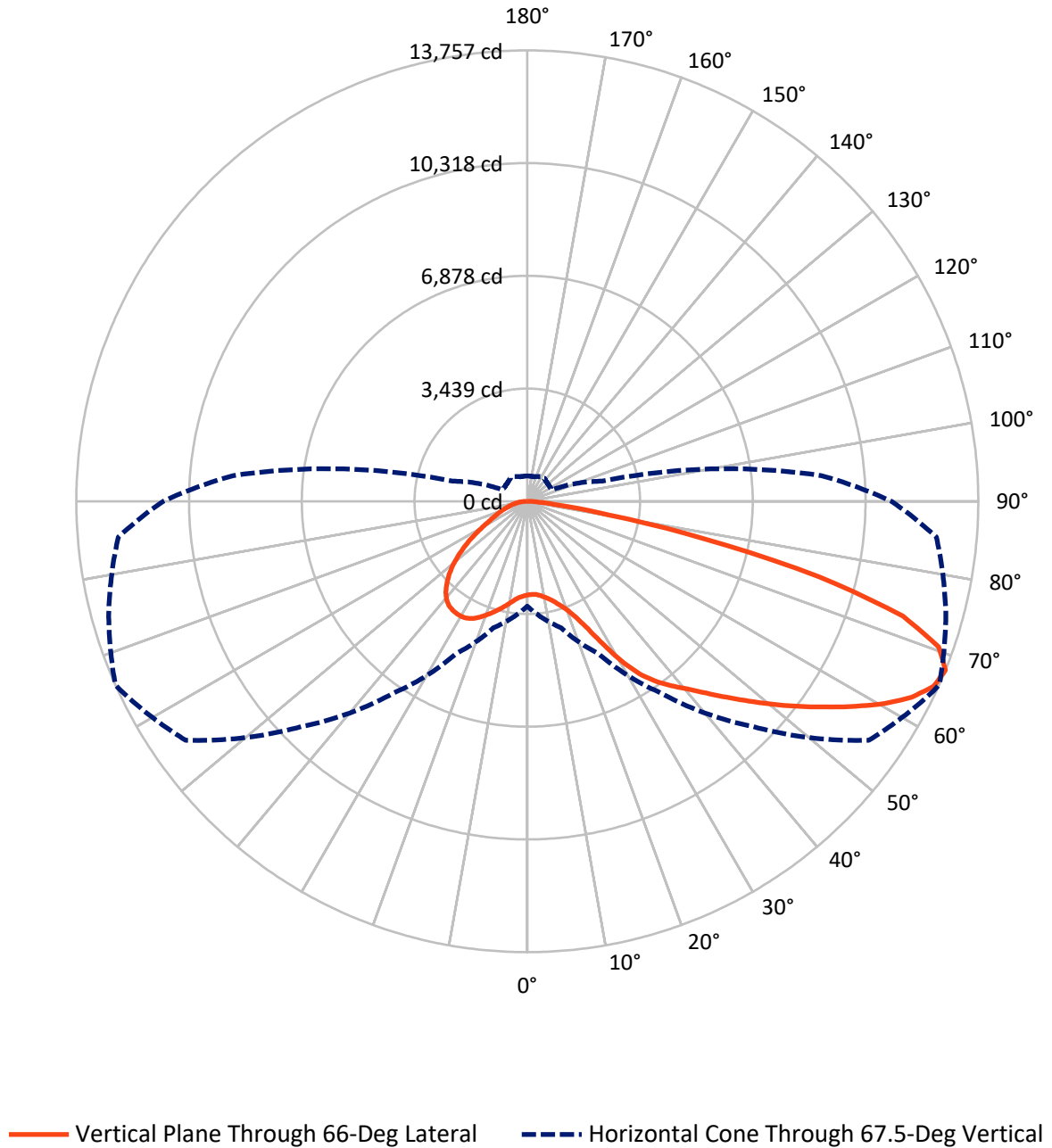
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Short - N/A

REPORT NUMBER: P883489
CATALOG NUMBER: NAV-SB3D-835-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P883489
 CATALOG NUMBER: NAV-SB3D-835-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6407.9	0.0	6407.9
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	19363.1	0.0	19363.1
	% Fixture	75.1	0.0	75.1
Total	Lumens	25771.0	0.0	25771.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.4	1.1
10°-20°	936.3	3.6
20°-30°	1804.7	7.0
30°-40°	3164.2	12.3
40°-50°	4704.2	18.3
50°-60°	5963.0	23.1
60°-70°	5834.6	22.6
70°-80°	2783.2	10.8
80°-90°	297.4	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°	25771.0	100.0
0°-180°	25771.0	100.0

Coefficient of Utilization



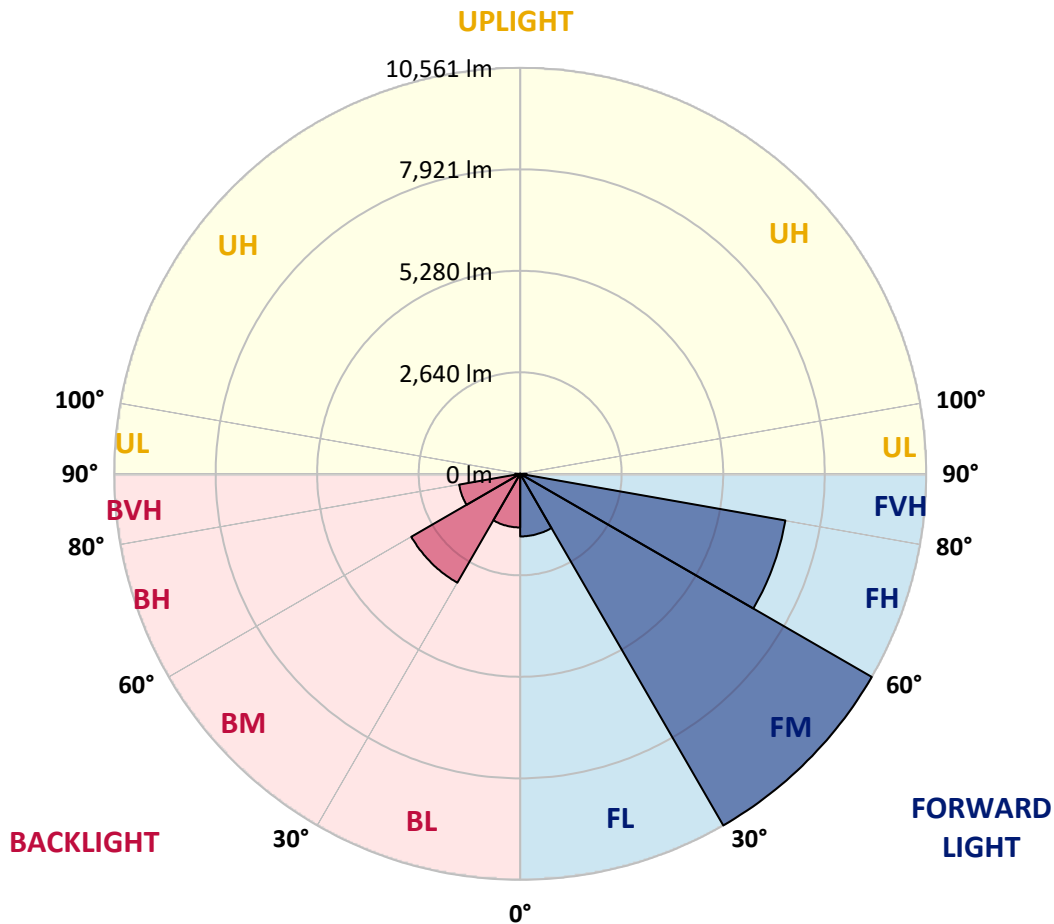
REPORT NUMBER: P883489
 CATALOG NUMBER: NAV-SB3D-835-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1628.5	6.3			
FM (30°-60°)	10560.7	41.0			
FH (60°-80°)	7005.3	27.2			G3/7500
FVH (80°-90°)	168.6	0.7			G2/225
BL (0°-30°)	1395.9	5.4	B3/2500		
BM (30°-60°)	3270.7	12.7	B3/5000		
BH (60°-80°)	1612.6	6.3	B3/2500		G3/2500
BVH (80°-90°)	128.8	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 III Short



REPORT NUMBER: P883489

CATALOG NUMBER: NAV-SB3D-835-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2858.3	2858.3	2858.3	2858.3	2858.3	2858.3	2858.3	2858.3	2858.3	2858.3	2858.3
2.5°	2828.6	2844.8	2840.7	2834.0	2832.6	2835.3	2839.4	2843.5	2842.1	2848.9	2859.7
5°	2820.4	2836.7	2835.3	2835.3	2840.7	2851.6	2858.3	2865.1	2858.3	2866.5	2881.4
7.5°	2825.8	2838.0	2843.5	2848.9	2862.4	2882.7	2899.0	2913.9	2905.7	2915.2	2934.2
10°	2894.9	2904.4	2909.8	2909.8	2919.3	2942.3	2958.5	2985.6	2978.9	2993.7	3018.1
12.5°	3020.8	3030.3	3030.3	3024.9	3031.7	3046.6	3052.0	3081.8	3069.6	3093.9	3118.3
15°	3175.2	3194.1	3179.2	3169.8	3172.5	3187.4	3186.0	3209.0	3196.9	3217.2	3238.8
17.5°	3345.8	3370.2	3345.8	3344.4	3339.0	3355.3	3356.6	3376.9	3355.3	3370.2	3385.1
20°	3547.5	3581.4	3561.1	3567.9	3555.7	3562.4	3569.2	3599.0	3565.1	3576.0	3571.9
22.5°	3831.9	3872.5	3850.8	3876.6	3868.4	3863.0	3861.7	3914.5	3861.7	3865.7	3826.5
25°	4246.2	4295.0	4257.1	4292.3	4292.3	4309.9	4330.2	4397.9	4309.9	4284.1	4182.6
27.5°	4858.2	4907.0	4832.5	4854.2	4847.4	4890.7	4869.1	5037.0	4942.2	4900.2	4695.8
30°	5594.8	5681.5	5540.7	5535.2	5528.5	5597.5	5628.7	5739.7	5643.6	5601.6	5355.2
32.5°	6391.0	6481.7	6313.8	6265.1	6239.3	6281.3	6255.6	6345.0	6278.6	6213.6	5909.0
35°	7233.2	7322.6	7162.8	7068.0	6965.1	6877.1	6785.0	6808.0	6745.7	6646.9	6331.4
37.5°	8029.4	8193.2	8023.9	7922.4	7732.8	7560.9	7303.6	7196.6	7138.4	7047.7	6729.5
40°	8840.4	8933.8	8805.2	8718.6	8512.7	8243.3	7831.7	7605.6	7527.0	7439.0	7169.6
42.5°	9437.5	9526.9	9457.9	9398.3	9237.2	8924.4	8392.2	8109.2	7995.5	7896.7	7667.8
45°	9911.5	9977.8	9934.5	9956.1	9887.1	9583.8	8973.1	8649.5	8531.7	8411.2	8231.1
47.5°	10102.4	10172.8	10241.8	10370.5	10488.3	10264.9	9597.3	9234.4	9109.9	8986.7	8809.3
50°	10080.7	10152.5	10352.9	10626.4	10992.0	10917.5	10255.4	9857.3	9742.2	9601.4	9437.5
52.5°	9907.4	9988.6	10245.9	10700.9	11283.1	11406.3	10925.6	10500.5	10392.1	10224.2	10060.4
55°	9452.4	9501.2	9887.1	10531.6	11352.1	11747.5	11582.3	11185.6	11077.3	10843.0	10664.3
57.5°	8608.9	8679.3	9241.2	10075.3	11178.8	11979.0	12159.1	11905.9	11801.7	11464.5	11277.7
60°	7508.1	7620.4	8263.6	9308.9	10737.4	11977.7	12683.1	12614.1	12527.4	12076.5	11881.6
62.5°	6262.4	6392.3	7011.1	8225.7	9965.6	11637.8	13010.8	13207.1	13162.5	12641.2	12392.0
65°	4809.5	4898.9	5514.9	6824.3	8764.6	10908.0	13048.7	13612.0	13620.1	13070.4	12658.8
67.5°	3202.3	3459.5	3994.4	5120.9	7156.0	9715.1	12715.6	13678.3	13756.9	13218.0	12524.7
70°	1562.5	1901.0	2425.1	3328.2	5120.9	7885.8	11845.0	13134.0	13308.7	12787.4	11725.8
72.5°	648.6	758.3	1044.0	1642.4	2939.6	5321.3	10095.6	11658.1	11981.8	11330.5	9858.6
75°	437.3	473.9	597.1	842.2	1339.1	2624.1	7280.6	8692.8	9214.1	8557.4	6994.9
77.5°	337.2	360.2	434.6	589.0	796.2	992.5	3896.9	5238.7	5508.2	5099.3	3639.6
80°	265.4	283.0	325.0	429.2	564.6	530.8	1328.3	2373.6	2529.3	2121.8	1169.9
82.5°	230.2	237.0	232.9	291.1	375.1	310.1	436.0	876.1	966.8	701.4	381.8
85°	166.5	185.5	193.6	180.1	199.0	157.1	178.7	310.1	341.2	304.7	215.3
87.5°	67.7	100.2	123.2	116.4	73.1	44.7	55.5	90.7	104.3	113.7	70.4
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: P883489
 CATALOG NUMBER: NAV-SB3D-835-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2858.3	2858.3	2858.3	2858.3	2858.3	2858.3	2858.3	2858.3	2858.3	2858.3	2858.3
2.5°	2861.1	2870.5	2877.3	2885.4	2890.8	2899.0	2915.2	2924.7	2926.0	2932.8	2931.5
5°	2886.8	2900.3	2915.2	2936.9	2961.3	2981.6	3012.7	3034.4	3042.5	3049.3	3047.9
7.5°	2942.3	2961.3	2988.3	3026.2	3061.4	3088.5	3126.4	3152.2	3177.9	3187.4	3188.7
10°	3024.9	3052.0	3091.2	3142.7	3180.6	3215.8	3255.1	3276.7	3302.5	3313.3	3318.7
12.5°	3127.8	3156.2	3207.7	3279.4	3314.7	3339.0	3352.6	3347.1	3352.6	3362.0	3364.7
15°	3245.6	3276.7	3335.0	3412.1	3436.5	3414.8	3385.1	3358.0	3353.9	3356.6	3366.1
17.5°	3385.1	3408.1	3475.8	3540.8	3523.2	3433.8	3368.8	3325.5	3303.8	3297.0	3306.5
20°	3580.0	3580.0	3635.6	3676.2	3558.4	3406.7	3305.2	3234.8	3190.1	3171.1	3167.1
22.5°	3817.0	3795.3	3830.5	3802.1	3551.6	3330.9	3190.1	3068.2	3000.5	2973.4	2969.4
25°	4117.6	4091.9	4082.4	3906.4	3502.9	3210.4	2981.6	2834.0	2774.4	2759.5	2762.2
27.5°	4571.2	4506.2	4383.0	3963.2	3413.5	3020.8	2737.8	2601.1	2567.2	2568.6	2572.6
30°	5175.1	5045.1	4743.1	3972.7	3267.3	2752.7	2488.7	2391.2	2375.0	2381.7	2404.7
32.5°	5734.3	5611.1	5111.4	3929.4	3042.5	2490.0	2265.3	2200.3	2175.9	2184.0	2194.9
35°	6173.0	6139.1	5452.7	3868.4	2766.3	2243.6	2064.9	2009.4	1962.0	1951.1	1959.3
37.5°	6587.3	6573.8	5708.6	3783.1	2492.8	2068.9	1903.8	1830.6	1761.6	1723.7	1725.0
40°	7042.3	7028.7	5876.5	3651.8	2250.4	1917.3	1758.9	1662.7	1577.4	1508.4	1515.2
42.5°	7554.1	7474.2	5956.4	3463.6	2044.6	1788.7	1641.1	1511.1	1398.7	1335.1	1339.1
45°	8113.3	7933.2	5955.0	3223.9	1871.3	1670.9	1515.2	1331.0	1226.7	1167.2	1164.5
47.5°	8706.4	8371.9	5881.9	2958.5	1703.4	1540.9	1320.2	1179.4	1110.3	1073.7	1065.6
50°	9318.4	8782.2	5757.3	2653.9	1531.4	1393.3	1198.3	1102.2	1049.4	1015.5	1003.3
52.5°	9893.9	9154.6	5607.0	2308.6	1356.7	1249.8	1144.2	1069.7	1014.2	976.3	960.0
55°	10428.7	9475.5	5394.4	1955.2	1214.6	1153.6	1118.4	1056.1	992.5	947.8	930.2
57.5°	10904.0	9684.0	5027.5	1623.5	1113.0	1087.3	1091.3	1033.1	960.0	922.1	897.7
60°	11299.3	9837.0	4484.5	1316.1	1030.4	1022.3	1049.4	989.8	904.5	861.2	842.2
62.5°	11536.3	9834.3	3818.3	1077.8	960.0	962.7	993.9	935.6	849.0	808.4	796.2
65°	11516.0	9593.3	3087.2	922.1	892.3	895.0	935.6	876.1	802.9	778.6	777.2
67.5°	11108.4	9005.6	2368.2	820.5	817.8	830.0	877.4	835.4	774.5	771.8	775.9
70°	10004.9	7785.6	1706.1	739.3	740.7	758.3	820.5	809.7	759.6	765.0	763.7
72.5°	8022.6	5936.0	1145.5	654.0	655.3	683.8	766.4	789.4	744.7	816.5	827.3
75°	5343.0	3701.9	736.6	563.3	564.6	601.2	719.0	750.1	704.1	813.8	820.5
77.5°	2567.2	1664.1	533.5	473.9	473.9	507.8	621.5	671.6	599.8	632.3	579.5
80°	886.9	625.6	419.7	381.8	373.7	396.7	524.0	582.2	517.2	476.6	446.8
82.5°	349.3	325.0	337.2	296.5	269.5	284.3	407.6	480.7	380.5	343.9	342.6
85°	200.4	211.2	238.3	196.3	155.7	174.7	299.2	345.3	287.1	253.2	258.6
87.5°	54.2	74.5	109.7	101.6	70.4	74.5	142.2	190.9	165.2	127.3	131.3
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)