

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: P965291

Luminaire Tested: **NAV-SB3D-835-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965291
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3D-835-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28689.7 lumens
Efficiency: N/A
Efficacy: 131.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 218.1
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



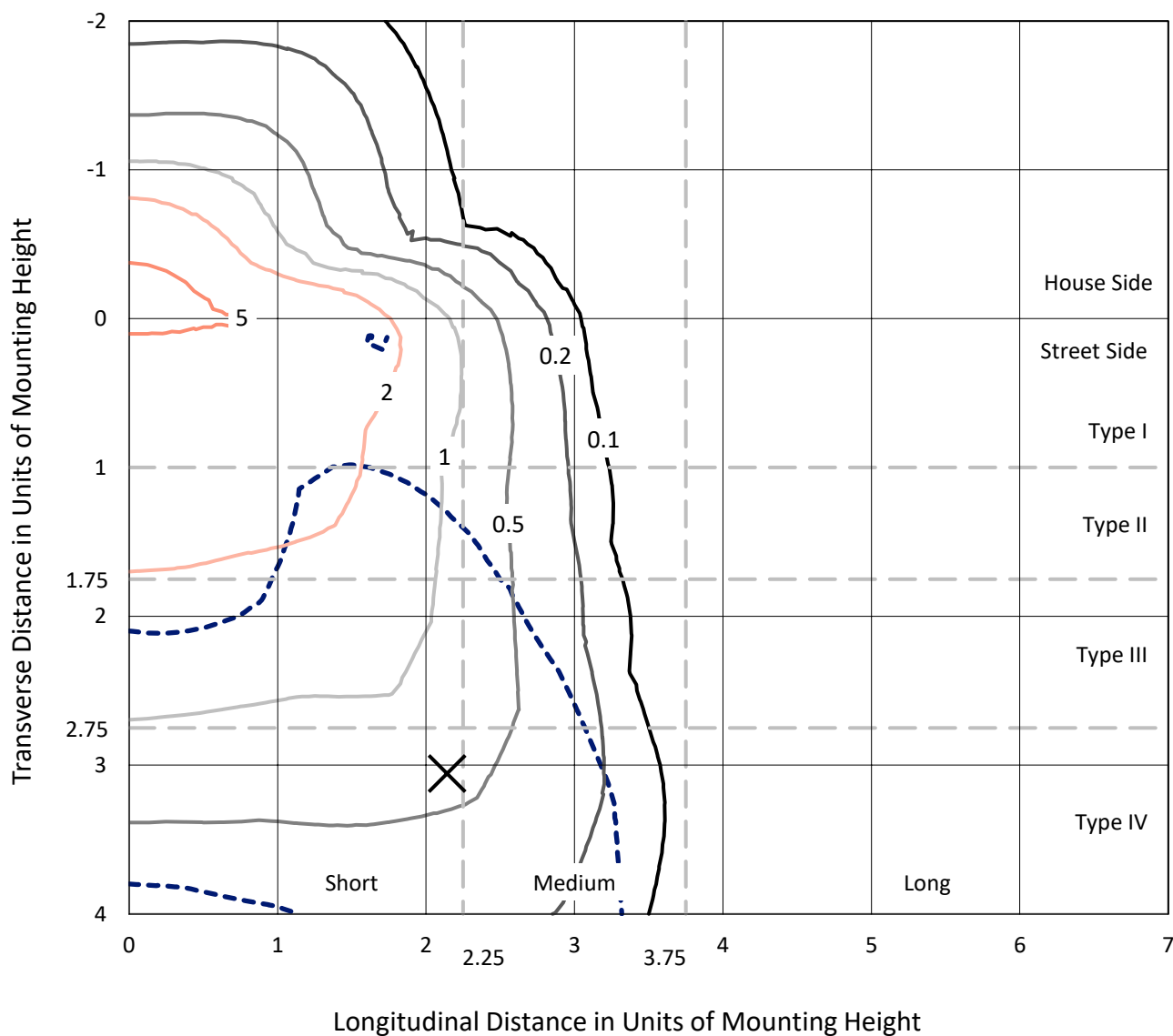
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

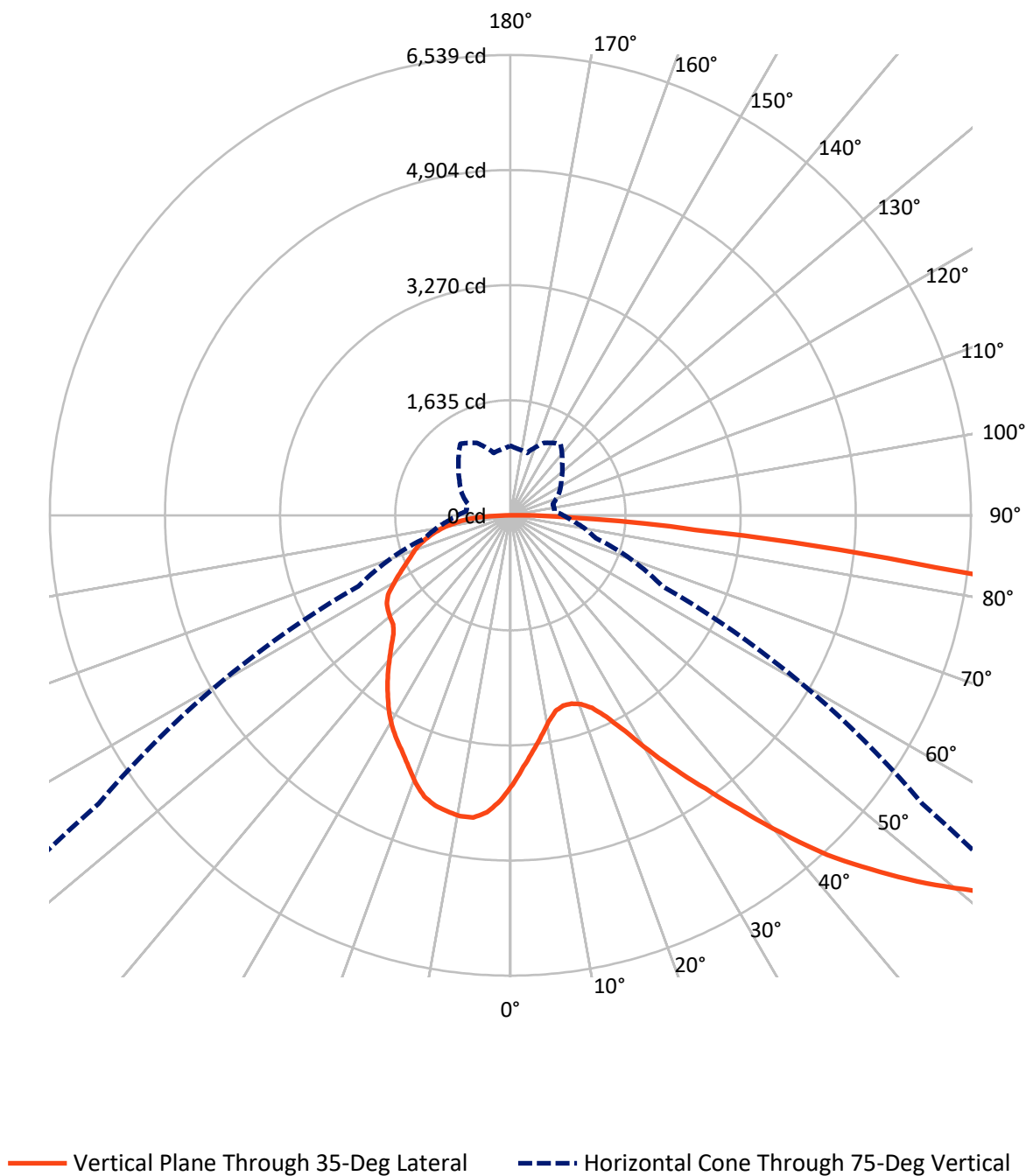


Based on 25 foot mounting height. Maximum calculated value = 6.8 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6827.4	0.0	6827.4
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	21862.3	0.0	21862.3
	% Fixture	76.2	0.0	76.2
Total	Lumens	28689.7	0.0	28689.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.0	1.3
10°-20°	1044.1	3.6
20°-30°	1753.3	6.1
30°-40°	2724.8	9.5
40°-50°	4044.4	14.1
50°-60°	5583.5	19.5
60°-70°	6774.1	23.6
70°-80°	5598.3	19.5
80°-90°	805.2	2.8
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°	28689.7	100.0
0°-180°	28689.7	100.0

Coefficient of Utilization



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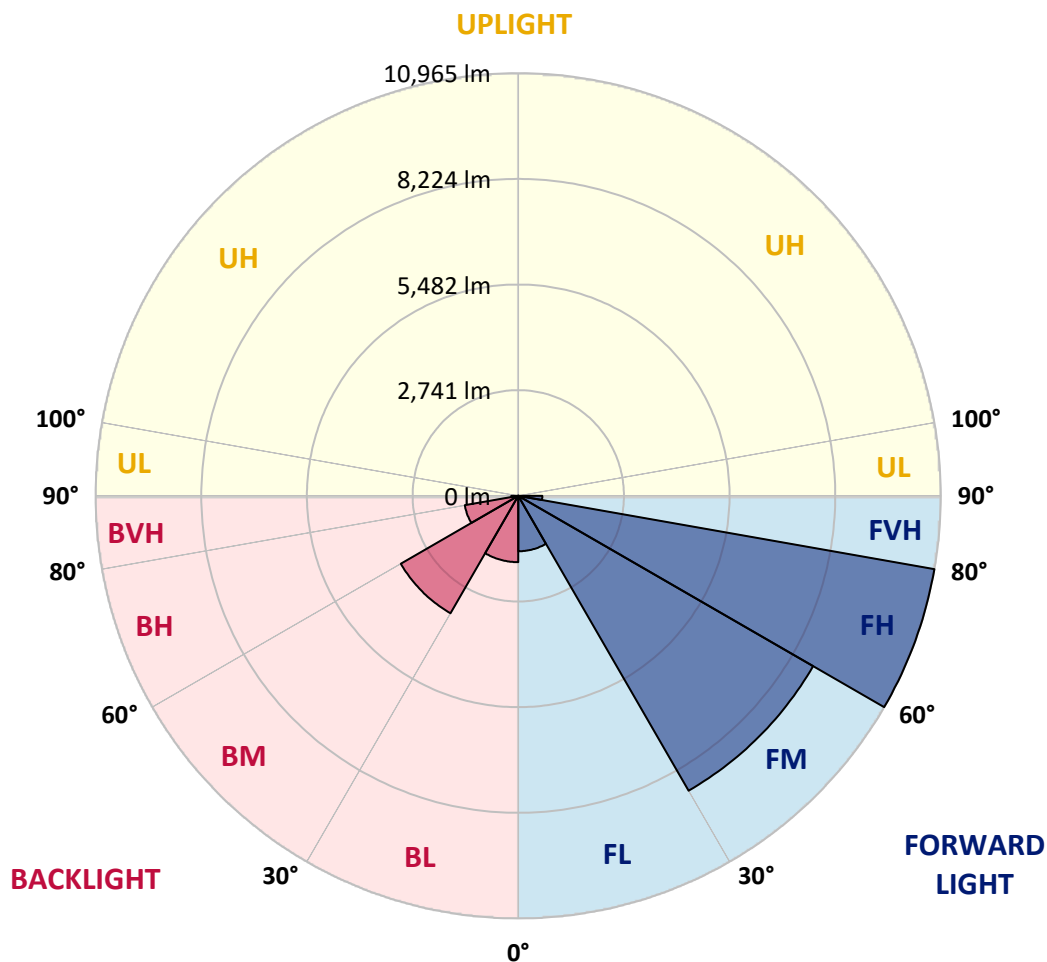
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1438.7	5.0			
FM	(30°-60°)	8834.9	30.8			
FH	(60°-80°)	10964.8	38.2			G4/12000
FVH	(80°-90°)	623.9	2.2			G4/750
BL	(0°-30°)	1720.6	6.0	B3/2500		
BM	(30°-60°)	3517.9	12.3	B3/5000		
BH	(60°-80°)	1407.6	4.9	B3/2500		G3/2500
BVH	(80°-90°)	181.3	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	3823.1	3823.1	3823.1	3823.1	3823.1	3823.1	3823.1	3823.1	3823.1	3823.1	3823.1
2.5°	3525.3	3547.0	3556.3	3551.7	3575.0	3571.8	3604.4	3644.7	3700.6	3754.9	3833.9
5°	3253.9	3277.1	3297.3	3316.0	3360.9	3374.9	3426.1	3503.7	3606.0	3709.9	3840.2
7.5°	3001.1	3021.3	3052.2	3086.4	3162.4	3176.4	3261.7	3382.6	3525.3	3677.3	3857.2
10°	2794.9	2815.0	2847.6	2886.3	2980.9	2998.0	3106.6	3267.9	3453.9	3646.3	3875.8
12.5°	2706.4	2712.7	2731.2	2770.0	2852.2	2863.0	2982.4	3167.0	3384.1	3623.1	3903.7
15°	2701.8	2714.2	2715.7	2735.9	2804.1	2808.8	2918.9	3102.0	3340.8	3618.4	3945.6
17.5°	2748.3	2757.6	2743.6	2756.0	2813.4	2821.2	2908.0	3070.9	3326.8	3638.5	4017.0
20°	2872.4	2880.1	2838.2	2821.2	2863.0	2869.3	2954.6	3091.1	3340.8	3680.4	4114.7
22.5°	3136.0	3140.7	3038.3	2968.5	2971.7	2974.8	3049.2	3173.3	3395.0	3756.4	4238.8
25°	3547.0	3543.9	3381.1	3246.2	3168.6	3151.6	3201.2	3306.6	3486.5	3857.2	4398.5
27.5°	4027.8	4004.6	3841.7	3640.1	3471.1	3446.3	3435.4	3480.4	3616.8	3990.6	4593.9
30°	4570.7	4549.0	4373.7	4110.0	3875.8	3835.6	3733.2	3709.9	3810.7	4172.1	4865.4
32.5°	5166.2	5152.3	4942.9	4623.4	4310.1	4263.6	4091.4	4029.4	4108.5	4446.6	5243.8
35°	5665.7	5653.2	5479.5	5150.7	4767.7	4710.3	4535.0	4465.2	4505.5	4798.6	5738.6
37.5°	6117.0	6110.7	5961.9	5702.9	5307.3	5237.5	5040.6	5017.4	5009.6	5262.3	6338.7
40°	6535.7	6520.2	6365.1	6228.6	5935.5	5871.9	5698.2	5678.1	5619.2	5833.2	7018.1
42.5°	6999.4	6959.1	6734.2	6670.7	6591.6	6538.8	6435.0	6438.0	6307.7	6476.8	7737.7
45°	7377.8	7354.6	7123.5	7086.3	7171.6	7149.9	7239.9	7263.2	7010.3	7151.4	8485.3
47.5°	7784.3	7762.5	7567.1	7540.7	7771.9	7778.0	8096.0	8103.8	7695.8	7852.5	9234.4
50°	8285.2	8254.2	8060.3	8092.9	8351.9	8375.2	8956.8	8904.1	8327.1	8564.4	9977.2
52.5°	8615.5	8634.2	8592.3	8645.1	8998.7	9020.3	9803.6	9668.6	8952.1	9266.9	10706.2
55°	8859.1	8896.3	9026.6	9147.5	9681.0	9702.8	10602.3	10396.1	9470.2	9918.3	11391.7
57.5°	9172.3	9119.6	9363.1	9598.8	10329.3	10386.7	11379.3	11097.1	9929.2	10479.8	11861.7
60°	9622.1	9584.9	9774.1	10123.1	11055.2	11146.7	12201.4	11728.4	10265.8	10925.0	11953.2
62.5°	10534.1	10441.1	10470.5	10779.1	11970.3	12091.2	13128.8	12278.9	10433.3	11098.6	11463.1
65°	11897.4	11737.6	11588.8	11802.8	13259.1	13378.5	14175.7	12711.6	10371.3	10762.1	10161.8
67.5°	13614.3	13456.1	13273.0	13474.6	15157.5	15252.1	15467.7	12955.1	9882.6	9465.5	7861.7
70°	15030.3	14971.4	15190.1	16019.8	18189.5	18192.7	17124.1	12753.5	8544.2	6711.0	4549.0
72.5°	14842.6	14806.9	15959.4	18524.6	22011.2	21929.0	18692.1	11227.3	5755.6	3027.4	1704.5
75°	12176.6	12407.6	14192.8	18479.6	23383.7	23372.9	17732.1	7137.5	2380.7	1254.7	881.0
77.5°	6529.6	6895.6	9214.2	13643.8	18254.7	18529.2	12466.6	2497.0	1022.1	803.4	609.6
80°	2129.4	2448.9	3672.7	6946.7	11861.7	11810.6	5343.0	980.2	699.5	569.2	421.9
82.5°	904.3	941.5	1640.9	3280.3	6087.5	5992.9	1701.4	563.0	491.7	389.3	260.6
85°	353.6	395.4	724.3	1516.8	2636.6	2579.2	614.2	279.2	314.9	254.4	155.1
87.5°	116.3	141.1	259.0	519.6	820.4	791.0	150.5	96.1	136.5	116.3	55.9
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°	3823.1	3823.1	3823.1	3823.1	3823.1	3823.1	3823.1	3823.1	3823.1	3823.1	3823.1
2.5°	3855.6	3880.4	3910.0	3953.4	3990.6	4021.6	4054.2	4074.4	4082.1	4105.3	4103.8
5°	3883.6	3937.8	4010.7	4082.1	4151.9	4193.8	4231.0	4249.6	4266.7	4279.1	4282.1
7.5°	3930.2	4000.0	4114.7	4207.7	4266.7	4300.8	4325.6	4319.5	4325.6	4328.7	4333.4
10°	3970.4	4068.1	4204.7	4293.0	4338.0	4339.5	4333.4	4311.7	4300.8	4302.3	4305.4
12.5°	4018.5	4127.1	4274.5	4348.9	4361.3	4327.1	4300.8	4263.6	4249.6	4243.4	4240.3
15°	4083.7	4207.7	4350.4	4378.4	4347.3	4303.9	4258.9	4198.4	4167.4	4142.6	4150.3
17.5°	4162.7	4299.3	4409.3	4389.2	4322.5	4251.2	4178.3	4086.8	4023.2	3996.8	3998.3
20°	4272.9	4395.4	4454.3	4366.0	4265.1	4156.6	4032.5	3920.8	3861.9	3835.6	3832.4
22.5°	4406.3	4524.1	4497.8	4325.6	4182.9	4009.2	3854.1	3771.9	3742.5	3723.8	3726.9
25°	4566.0	4666.8	4528.8	4266.7	4048.0	3813.8	3694.4	3668.0	3654.0	3640.1	3640.1
27.5°	4773.8	4828.2	4552.0	4179.8	3837.1	3606.0	3562.6	3567.2	3562.6	3539.3	3543.9
30°	5048.3	5037.5	4573.8	4038.7	3595.1	3418.3	3421.4	3441.5	3444.7	3429.1	3436.9
32.5°	5409.7	5299.7	4584.6	3855.6	3364.0	3253.9	3257.0	3278.7	3294.2	3267.9	3280.3
35°	5847.1	5605.1	4567.6	3626.1	3185.7	3097.2	3074.0	3080.2	3084.8	3060.0	3077.0
37.5°	6357.4	5947.9	4491.5	3371.7	3038.3	2943.7	2894.1	2852.2	2827.4	2804.1	2819.7
40°	6917.2	6321.7	4351.9	3123.6	2873.9	2780.8	2706.4	2627.3	2543.5	2512.6	2526.5
42.5°	7503.5	6706.4	4182.9	2886.3	2684.7	2608.7	2529.6	2414.8	2289.2	2225.6	2233.4
45°	8111.5	7100.3	4017.0	2652.1	2490.9	2458.3	2366.7	2228.8	2092.2	2011.6	2005.4
47.5°	8707.1	7472.5	3773.4	2416.4	2309.3	2345.0	2273.7	2146.6	1994.5	1867.3	1853.4
50°	9276.2	7821.5	3374.9	2177.5	2162.0	2311.0	2242.7	2059.6	1886.0	1723.1	1709.2
52.5°	9840.8	8103.8	2864.6	1960.4	2082.9	2301.6	2202.3	2000.7	1788.2	1617.7	1599.0
55°	10320.0	8249.5	2373.0	1774.3	1968.2	2222.5	2154.2	1930.9	1650.2	1468.7	1453.2
57.5°	10593.1	8131.6	1963.5	1591.3	1809.9	2092.2	2072.0	1782.1	1485.8	1346.2	1327.6
60°	10475.2	7654.0	1628.5	1431.5	1659.5	1951.1	1929.4	1634.7	1360.2	1228.4	1209.7
62.5°	9825.3	6743.6	1363.2	1291.9	1523.0	1806.9	1786.7	1521.5	1264.0	1136.8	1116.7
65°	8516.3	5485.7	1157.0	1175.6	1385.0	1633.1	1662.7	1426.9	1188.1	1063.9	1043.8
67.5°	6495.4	3973.5	995.7	1074.8	1250.1	1462.6	1547.9	1358.6	1124.4	1006.6	988.0
70°	3702.1	2256.6	859.3	977.1	1130.7	1304.3	1459.5	1304.3	1056.2	958.5	946.1
72.5°	1403.6	1036.1	742.9	879.3	1015.9	1171.0	1361.7	1219.0	977.1	904.3	891.7
75°	749.1	631.2	625.0	764.6	884.1	1040.7	1239.2	1135.3	918.2	955.4	986.4
77.5°	510.2	446.7	522.6	654.5	739.8	896.5	1108.9	1008.1	795.6	792.5	730.5
80°	353.6	316.4	425.0	527.4	572.3	753.8	967.8	865.4	648.3	604.9	578.5
82.5°	212.5	206.2	318.0	393.9	404.8	581.6	801.9	725.8	530.4	462.2	465.2
85°	116.3	122.5	203.2	231.1	235.7	406.3	628.1	561.5	408.0	342.8	345.8
87.5°	32.6	41.9	74.4	91.5	113.3	210.9	373.8	333.4	204.7	142.7	142.7
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)