

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: P965260

Luminaire Tested: **NAV-SB3D-830-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965260
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-830-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27792.9 lumens
Efficiency: N/A
Efficacy: 127.4 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



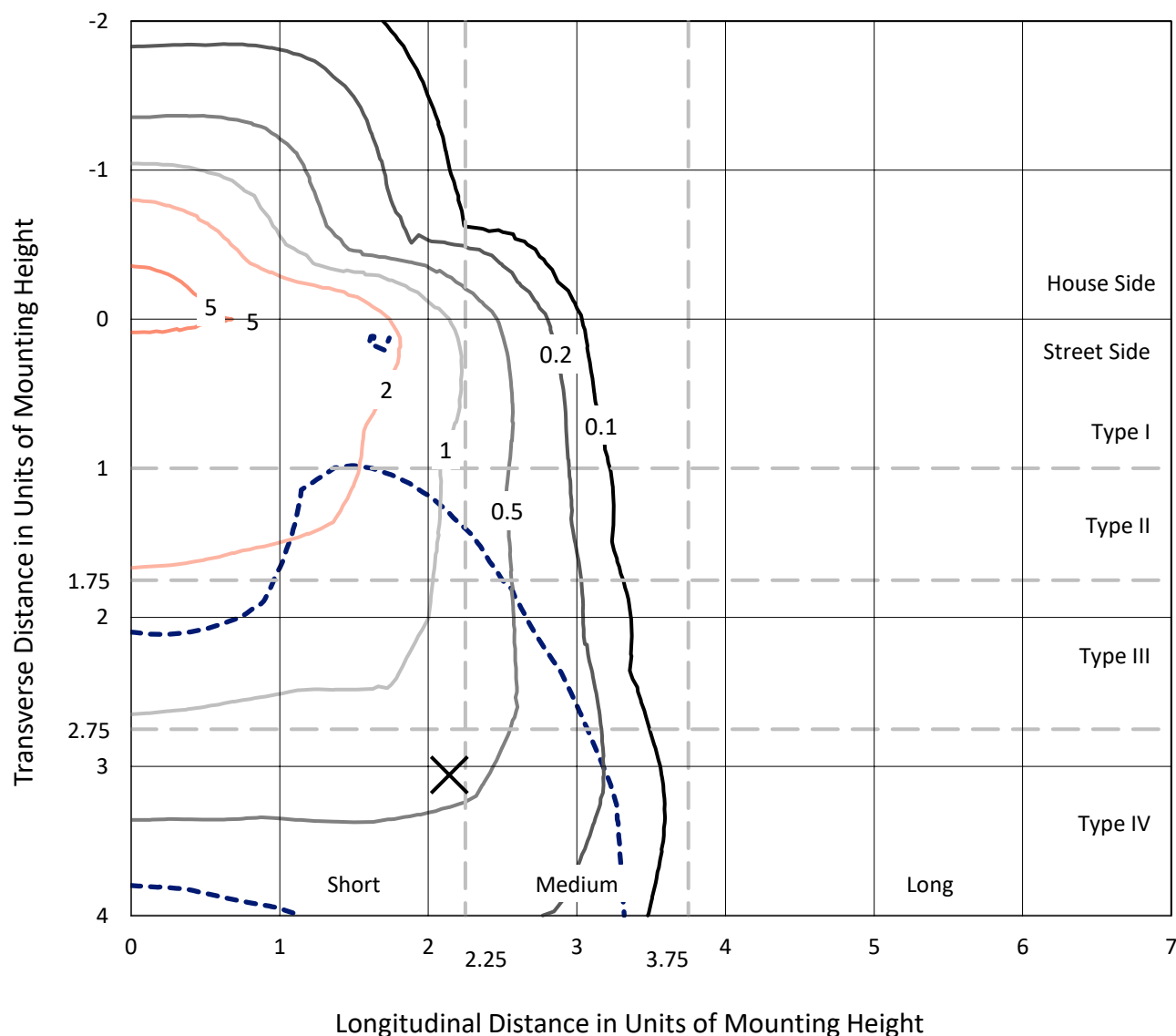
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

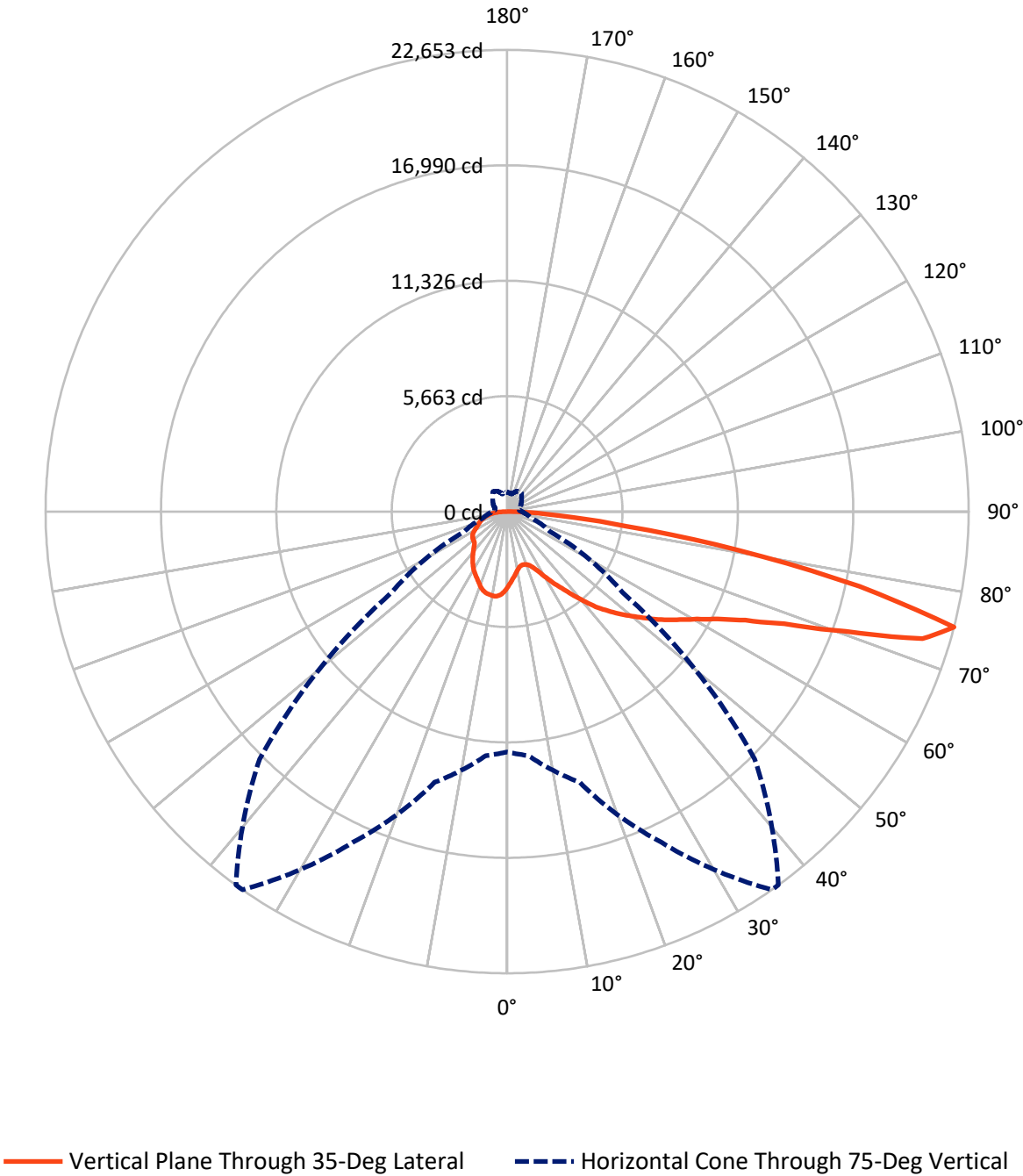


Based on 25 foot mounting height. Maximum calculated value = 6.6 fc

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	6614.0	0.0	6614.0
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	21178.9	0.0	21178.9
	% Fixture	76.2	0.0	76.2
Total	Lumens	27792.9	0.0	27792.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.7	1.3
10°-20°	1011.4	3.6
20°-30°	1698.5	6.1
30°-40°	2639.7	9.5
40°-50°	3918.0	14.1
50°-60°	5409.0	19.5
60°-70°	6562.3	23.6
70°-80°	5423.3	19.5
80°-90°	780.0	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°	27792.9	100.0
0°-180°	27792.9	100.0

Coefficient of Utilization



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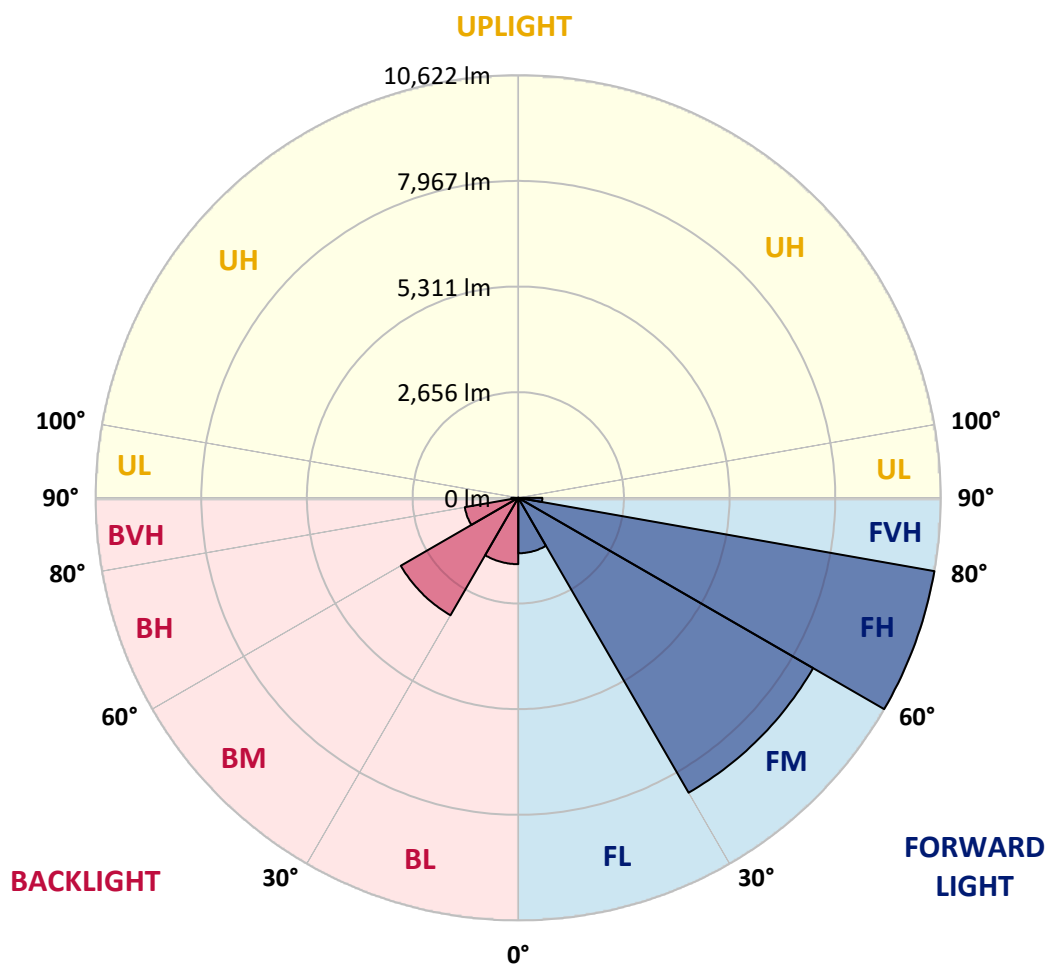
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1393.8	5.0			
FM	(30°-60°)	8558.7	30.8			
FH	(60°-80°)	10622.0	38.2			G4/12000
FVH	(80°-90°)	604.4	2.2			G4/750
BL	(0°-30°)	1666.8	6.0	B3/2500		
BM	(30°-60°)	3407.9	12.3	B3/5000		
BH	(60°-80°)	1363.6	4.9	B3/2500		G3/2500
BVH	(80°-90°)	175.6	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°	3703.6	3703.6	3703.6	3703.6	3703.6	3703.6	3703.6	3703.6	3703.6	3703.6	3703.6
2.5°	3415.1	3436.1	3445.1	3440.6	3463.2	3460.2	3491.8	3530.8	3584.9	3637.5	3714.1
5°	3152.2	3174.7	3194.2	3212.2	3255.8	3269.3	3319.0	3394.1	3493.2	3594.0	3720.1
7.5°	2907.3	2926.8	2956.8	2989.9	3063.5	3077.0	3159.7	3276.9	3415.1	3562.4	3736.6
10°	2707.4	2727.0	2758.6	2796.1	2887.7	2904.2	3009.4	3165.7	3346.0	3532.4	3754.7
12.5°	2621.8	2627.8	2645.8	2683.4	2763.1	2773.5	2889.3	3068.0	3278.4	3509.8	3781.7
15°	2617.3	2629.3	2630.9	2650.3	2716.5	2721.0	2827.7	3004.9	3236.3	3505.3	3822.3
17.5°	2662.3	2671.4	2657.8	2669.9	2725.5	2733.0	2817.1	2974.9	3222.8	3524.8	3891.4
20°	2782.6	2790.0	2749.6	2733.0	2773.5	2779.6	2862.2	2994.4	3236.3	3565.4	3986.0
22.5°	3038.0	3042.5	2943.4	2875.7	2878.7	2881.8	2953.8	3074.1	3288.9	3639.0	4106.3
25°	3436.1	3433.1	3275.4	3144.7	3069.6	3053.1	3101.1	3203.2	3377.6	3736.6	4261.0
27.5°	3901.9	3879.4	3721.6	3526.3	3362.5	3338.5	3328.0	3371.5	3503.8	3865.9	4450.3
30°	4427.8	4406.8	4236.9	3981.5	3754.7	3715.6	3616.4	3594.0	3691.5	4041.7	4713.3
32.5°	5004.8	4991.2	4788.4	4478.8	4175.3	4130.3	3963.5	3903.4	3980.1	4307.6	5079.9
35°	5488.6	5476.5	5308.3	4989.7	4618.5	4563.0	4393.3	4325.6	4364.7	4648.7	5559.2
37.5°	5925.7	5919.7	5775.5	5524.5	5141.5	5073.9	4883.0	4860.4	4853.0	5097.8	6140.6
40°	6331.4	6316.4	6166.1	6034.0	5749.9	5688.3	5520.0	5500.6	5443.5	5650.8	6798.7
42.5°	6780.7	6741.6	6523.7	6462.1	6385.5	6334.4	6233.7	6236.7	6110.5	6274.3	7495.8
45°	7147.2	7124.7	6900.8	6864.8	6947.4	6926.4	7013.6	7036.1	6791.1	6927.9	8220.0
47.5°	7540.9	7519.9	7330.6	7305.0	7528.8	7534.9	7842.9	7850.4	7455.2	7607.0	8945.7
50°	8026.2	7996.1	7808.3	7839.9	8090.8	8113.4	8676.7	8625.7	8066.7	8296.7	9665.3
52.5°	8346.3	8364.2	8323.7	8374.8	8717.3	8738.3	9497.1	9366.3	8672.2	8977.3	10371.6
55°	8582.1	8618.2	8744.4	8861.5	9378.4	9399.5	10270.9	10071.0	9174.1	9608.2	11035.7
57.5°	8885.6	8834.5	9070.4	9298.8	10006.5	10062.0	11023.7	10750.2	9618.8	10152.2	11490.9
60°	9321.3	9285.3	9468.5	9806.6	10709.6	10798.3	11819.9	11361.7	9944.9	10583.4	11579.5
62.5°	10204.8	10114.6	10143.2	10442.2	11596.0	11713.3	12718.4	11895.0	10107.1	10751.6	11104.7
65°	11525.4	11370.7	11226.4	11433.8	12844.6	12960.3	13732.5	12314.2	10047.0	10425.7	9844.2
67.5°	13188.7	13035.4	12858.1	13053.5	14683.6	14775.3	14984.2	12550.1	9573.7	9169.5	7616.1
70°	14560.4	14503.3	14715.2	15519.0	17621.0	17624.0	16588.8	12354.8	8277.1	6501.2	4406.8
72.5°	14378.6	14344.1	15460.4	17945.5	21323.1	21243.4	18107.8	10876.4	5575.7	2932.8	1651.2
75°	11795.9	12019.8	13749.1	17901.9	22652.7	22642.2	17177.8	6914.3	2306.2	1215.5	853.4
77.5°	6325.4	6680.0	8926.2	13217.3	17684.1	17950.0	12076.9	2419.0	990.1	778.3	590.5
80°	2062.9	2372.4	3557.9	6729.5	11490.9	11441.4	5176.0	949.6	677.6	551.4	408.7
82.5°	876.0	912.0	1589.6	3177.7	5897.2	5805.5	1648.2	545.4	476.3	377.1	252.5
85°	342.6	383.1	701.6	1469.4	2554.2	2498.6	595.0	270.4	305.0	246.4	150.3
87.5°	112.6	136.7	250.9	503.4	794.8	766.3	145.8	93.2	132.2	112.6	54.1
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°	3703.6	3703.6	3703.6	3703.6	3703.6	3703.6	3703.6	3703.6	3703.6	3703.6	3703.6
2.5°	3735.1	3759.2	3787.7	3829.8	3865.9	3895.9	3927.5	3947.0	3954.4	3977.0	3975.6
5°	3762.2	3814.7	3885.4	3954.4	4022.1	4062.7	4098.8	4116.8	4133.3	4145.3	4148.3
7.5°	3807.3	3874.9	3986.0	4076.2	4133.3	4166.3	4190.4	4184.4	4190.4	4193.4	4197.9
10°	3846.3	3941.0	4073.1	4158.8	4202.4	4203.9	4197.9	4176.9	4166.3	4167.9	4170.8
12.5°	3893.0	3998.1	4140.8	4213.0	4224.9	4191.9	4166.3	4130.3	4116.8	4110.8	4107.8
15°	3956.0	4076.2	4214.4	4241.4	4211.4	4169.4	4125.8	4067.2	4037.2	4013.1	4020.6
17.5°	4032.7	4164.9	4271.5	4252.0	4187.4	4118.2	4047.6	3959.0	3897.4	3871.8	3873.4
20°	4139.3	4258.0	4315.0	4229.5	4131.8	4026.6	3906.4	3798.2	3741.1	3715.6	3712.7
22.5°	4268.5	4382.7	4357.2	4190.4	4052.1	3883.9	3733.7	3654.0	3625.4	3607.4	3610.5
25°	4423.3	4521.0	4387.2	4133.3	3921.4	3694.6	3578.9	3553.4	3539.8	3526.3	3526.3
27.5°	4624.6	4677.2	4409.8	4049.2	3717.1	3493.2	3451.2	3455.7	3451.2	3428.6	3433.1
30°	4890.6	4880.0	4430.8	3912.4	3482.7	3311.5	3314.4	3334.0	3337.0	3321.9	3329.5
32.5°	5240.6	5133.9	4441.3	3735.1	3258.9	3152.2	3155.2	3176.3	3191.2	3165.7	3177.7
35°	5664.4	5429.9	4424.8	3512.8	3086.1	3000.5	2977.9	2983.9	2988.4	2964.4	2980.9
37.5°	6158.6	5761.9	4351.1	3266.4	2943.4	2851.7	2803.6	2763.1	2739.0	2716.5	2731.5
40°	6701.0	6124.1	4215.9	3026.0	2784.1	2693.9	2621.8	2545.2	2464.1	2434.0	2447.5
42.5°	7269.0	6496.7	4052.1	2796.1	2600.7	2527.1	2450.6	2339.4	2217.7	2156.1	2163.6
45°	7858.0	6878.3	3891.4	2569.3	2413.0	2381.4	2292.7	2159.1	2026.8	1948.7	1942.7
47.5°	8434.8	7238.9	3655.6	2340.9	2237.2	2271.7	2202.6	2079.4	1932.2	1809.0	1795.5
50°	8986.3	7577.0	3269.3	2109.4	2094.5	2238.7	2172.6	1995.3	1827.0	1669.2	1655.7
52.5°	9533.2	7850.4	2775.1	1899.1	2017.8	2229.7	2133.5	1938.2	1732.4	1567.1	1549.1
55°	9997.4	7991.6	2298.8	1718.8	1906.6	2153.0	2086.9	1870.6	1598.6	1422.8	1407.8
57.5°	10261.9	7877.4	1902.1	1541.5	1753.4	2026.8	2007.3	1726.3	1439.4	1304.1	1286.1
60°	10147.7	7414.6	1577.6	1386.8	1607.6	1890.1	1869.1	1583.6	1317.6	1189.9	1171.9
62.5°	9518.2	6532.7	1320.7	1251.5	1475.4	1750.4	1730.8	1473.9	1224.5	1101.3	1081.8
65°	8250.0	5314.2	1120.8	1138.9	1341.7	1582.1	1610.7	1382.3	1150.9	1030.7	1011.2
67.5°	6292.4	3849.3	964.6	1041.2	1211.0	1416.9	1499.5	1316.2	1089.3	975.1	957.0
70°	3586.4	2186.1	832.4	946.6	1095.3	1263.6	1413.8	1263.6	1023.2	928.5	916.6
72.5°	1359.8	1003.7	719.7	851.9	984.1	1134.4	1319.2	1180.9	946.6	876.0	863.9
75°	725.7	611.5	605.5	740.8	856.4	1008.2	1200.5	1099.8	889.5	925.5	955.6
77.5°	494.4	432.8	506.4	634.1	716.7	868.4	1074.3	976.6	770.8	767.7	707.7
80°	342.6	306.5	411.6	510.9	554.4	730.2	937.6	838.3	628.0	586.0	560.5
82.5°	205.8	199.9	308.0	381.6	392.2	563.4	776.7	703.2	513.8	447.7	450.7
85°	112.6	118.7	196.8	223.9	228.4	393.6	608.5	543.9	395.1	332.0	335.1
87.5°	31.6	40.6	72.2	88.7	109.7	204.4	362.1	323.1	198.3	138.3	138.3
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)