

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: P885171

Luminaire Tested: **NAV-SB6B-827-U-T4FT**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885171
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-827-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27447 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

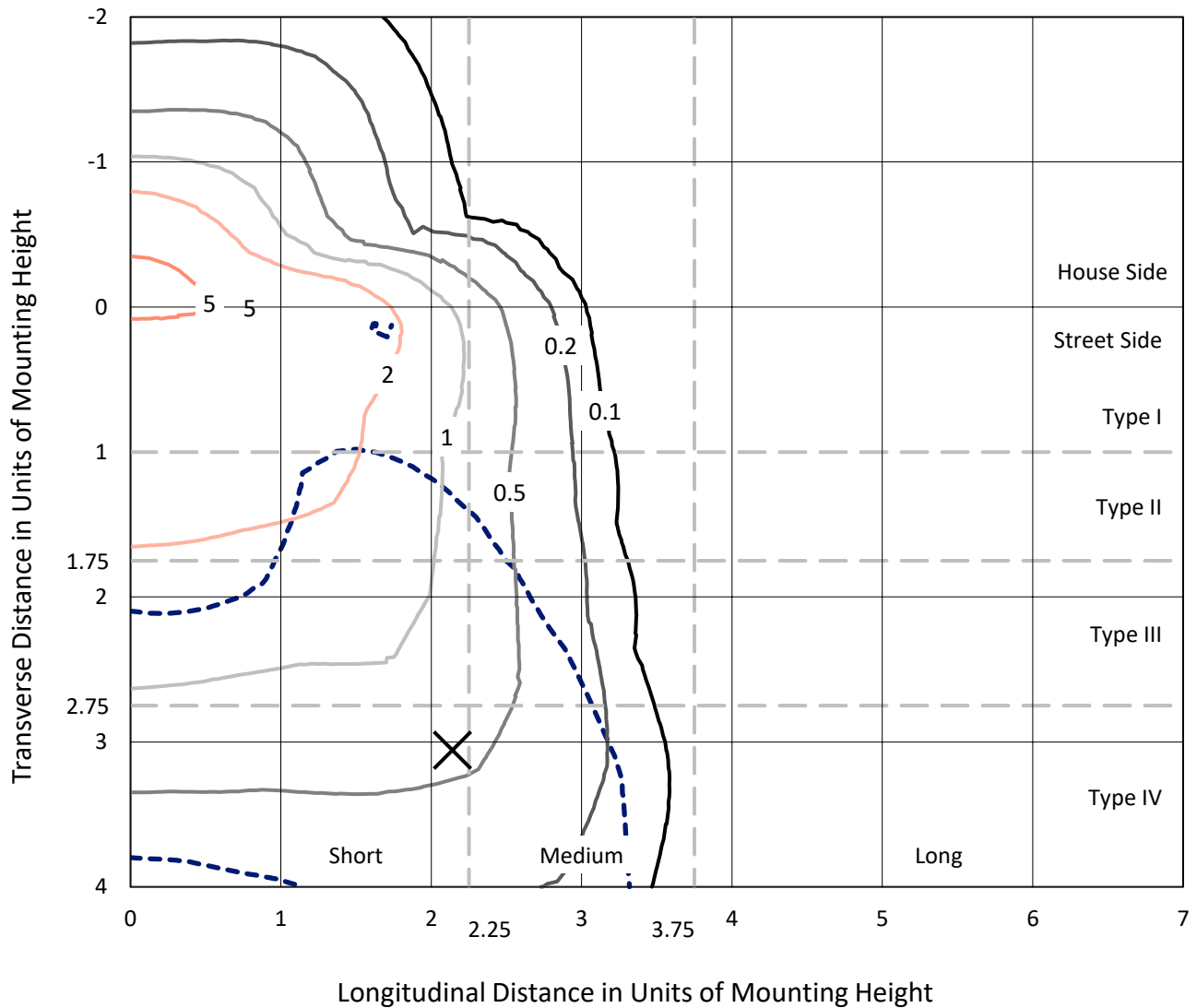
Input Watts (W): 220.4
Input Voltage (V): 120.0
Input Current (Ain): 1.838
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P885171
 CATALOG NUMBER: NAV-SB6B-827-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

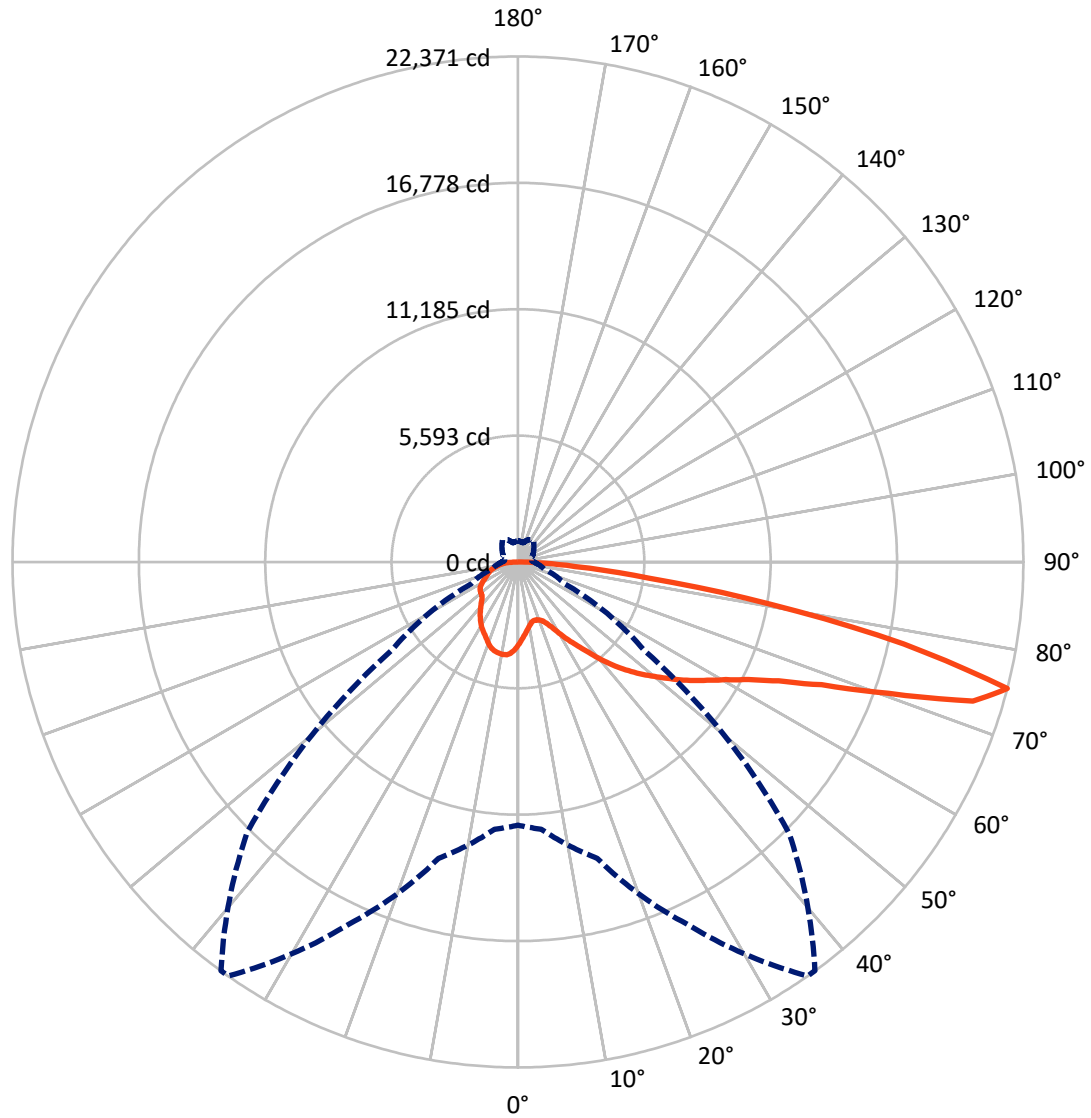
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P885171
CATALOG NUMBER: NAV-SB6B-827-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P885171
 CATALOG NUMBER: NAV-SB6B-827-U-T4FT

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6531.7	0.0	6531.7
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	20915.3	0.0	20915.3
	% Fixture	76.2	0.0	76.2
Total	Lumens	27447.0	0.0	27447.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.3	1.3
10°-20°	998.9	3.6
20°-30°	1677.3	6.1
30°-40°	2606.8	9.5
40°-50°	3869.2	14.1
50°-60°	5341.7	19.5
60°-70°	6480.7	23.6
70°-80°	5355.8	19.5
80°-90°	770.3	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°	27447.0	100.0
0°-180°	27447.0	100.0

Coefficient of Utilization



REPORT NUMBER: P885171

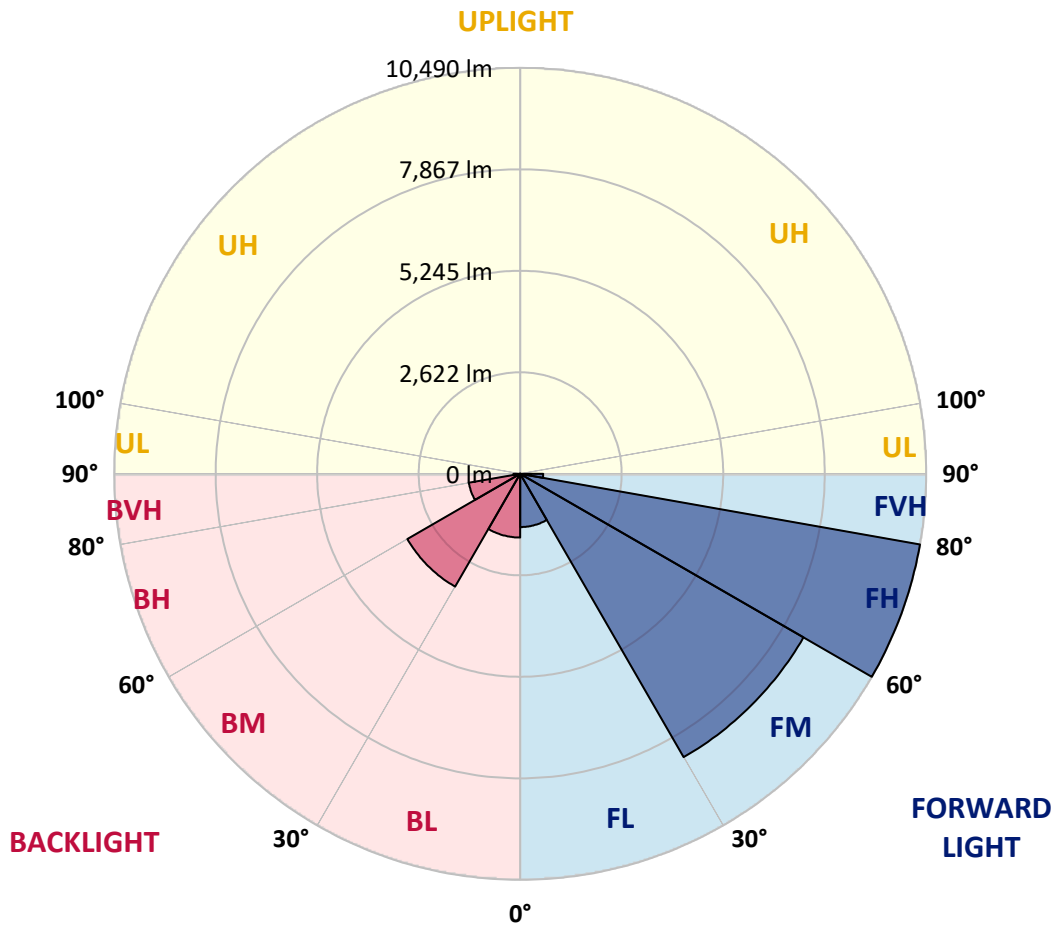
CATALOG NUMBER: NAV-SB6B-827-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1376.4	5.0			
FM (30°-60°)	8452.2	30.8			
FH (60°-80°)	10489.8	38.2			G4/12000
FVH (80°-90°)	596.9	2.2			G4/750
BL (0°-30°)	1646.1	6.0	B3/2500		
BM (30°-60°)	3365.5	12.3	B3/5000		
BH (60°-80°)	1346.6	4.9	B3/2500		G3/2500
BVH (80°-90°)	173.5	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



REPORT NUMBER: P885171

CATALOG NUMBER: NAV-SB6B-827-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	3657.5	3657.5	3657.5	3657.5	3657.5	3657.5	3657.5	3657.5	3657.5	3657.5	3657.5
2.5°	3372.6	3393.4	3402.3	3397.8	3420.1	3417.1	3448.3	3486.9	3540.3	3592.2	3667.9
5°	3113.0	3135.2	3154.5	3172.3	3215.3	3228.7	3277.7	3351.8	3449.8	3549.2	3673.8
7.5°	2871.1	2890.4	2920.1	2952.7	3025.4	3038.8	3120.4	3236.1	3372.6	3518.0	3690.1
10°	2673.8	2693.0	2724.2	2761.3	2851.8	2868.1	2972.0	3126.3	3304.4	3488.3	3707.9
12.5°	2589.2	2595.1	2612.9	2650.0	2728.7	2739.0	2853.3	3029.9	3237.6	3466.1	3734.7
15°	2584.7	2596.6	2598.1	2617.4	2682.7	2687.1	2792.5	2967.5	3196.0	3461.6	3774.7
17.5°	2629.2	2638.1	2624.8	2636.7	2691.6	2699.0	2782.1	2937.9	3182.7	3480.9	3843.0
20°	2747.9	2755.4	2715.3	2699.0	2739.0	2745.0	2826.6	2957.2	3196.0	3521.0	3936.4
22.5°	3000.2	3004.6	2906.7	2839.9	2842.9	2845.9	2917.1	3035.8	3248.0	3593.7	4055.1
25°	3393.4	3390.4	3234.6	3105.5	3031.3	3015.0	3062.5	3163.4	3335.5	3690.1	4208.0
27.5°	3853.4	3831.1	3675.3	3482.4	3320.7	3296.9	3286.6	3329.6	3460.2	3817.7	4394.9
30°	4372.7	4351.9	4184.2	3932.0	3707.9	3669.4	3571.4	3549.2	3645.6	3991.3	4654.6
32.5°	4942.4	4929.1	4728.8	4423.1	4123.4	4078.9	3914.2	3854.8	3930.5	4254.0	5016.6
35°	5420.2	5408.3	5242.2	4927.6	4561.1	4506.2	4338.5	4271.8	4310.4	4590.8	5490.0
37.5°	5852.0	5846.1	5703.6	5455.8	5077.5	5010.7	4822.3	4800.0	4792.6	5034.4	6064.2
40°	6252.6	6237.8	6089.4	5958.8	5678.4	5617.6	5451.4	5432.1	5375.7	5580.5	6714.1
42.5°	6696.3	6657.7	6442.5	6381.7	6306.0	6255.6	6156.2	6159.1	6034.5	6196.2	7402.5
45°	7058.3	7036.0	6815.0	6779.4	6861.0	6840.2	6926.2	6948.5	6706.7	6841.7	8117.7
47.5°	7447.1	7426.3	7239.3	7214.1	7435.2	7441.1	7745.3	7752.7	7362.5	7512.3	8834.4
50°	7926.3	7896.6	7711.2	7742.3	7990.1	8012.4	8568.8	8518.3	7966.4	8193.4	9545.1
52.5°	8242.4	8260.2	8220.1	8270.5	8608.8	8629.6	9378.9	9249.8	8564.3	8865.5	10242.5
55°	8475.3	8510.9	8635.6	8751.3	9261.7	9282.5	10143.1	9945.7	9059.9	9488.7	10898.3
57.5°	8775.0	8724.6	8957.5	9183.1	9881.9	9936.8	10886.4	10616.4	9499.1	10025.8	11347.9
60°	9205.3	9169.7	9350.7	9684.6	10576.3	10663.9	11672.8	11220.3	9821.1	10451.7	11435.4
62.5°	10077.8	9988.8	10016.9	10312.2	11451.8	11567.5	12560.1	11747.0	9981.3	10617.9	10966.6
65°	11382.0	11229.2	11086.7	11291.5	12684.8	12799.0	13561.7	12161.0	9922.0	10295.9	9721.7
67.5°	13024.6	12873.2	12698.1	12891.0	14500.9	14591.4	14797.7	12393.9	9454.6	9055.5	7521.2
70°	14379.2	14322.9	14532.1	15325.9	17401.7	17404.6	16382.3	12201.1	8174.1	6420.3	4351.9
72.5°	14199.7	14165.6	15268.0	17722.2	21057.7	20979.1	17882.4	10741.0	5506.3	2896.3	1630.7
75°	11649.1	11870.2	13578.0	17679.1	22370.8	22360.4	16964.0	6828.3	2277.6	1200.4	842.8
77.5°	6246.7	6596.9	8815.1	13052.7	17464.0	17726.6	11926.6	2388.9	977.8	768.6	583.1
80°	2037.2	2342.9	3513.6	6645.8	11347.9	11298.9	5111.6	937.7	669.2	544.5	403.6
82.5°	865.0	900.6	1569.8	3138.2	5823.8	5733.3	1627.7	538.6	470.4	372.4	249.3
85°	338.3	378.4	692.9	1451.1	2522.4	2467.5	587.6	267.1	301.2	243.3	148.4
87.5°	111.3	135.0	247.8	497.1	784.9	756.7	143.9	92.0	130.6	111.3	53.4
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: P885171

CATALOG NUMBER: NAV-SB6B-827-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3657.5	3657.5	3657.5	3657.5	3657.5	3657.5	3657.5	3657.5	3657.5	3657.5	3657.5
2.5°	3688.7	3712.4	3740.6	3782.1	3817.7	3847.4	3878.6	3897.9	3905.3	3927.5	3926.1
5°	3715.4	3767.3	3837.0	3905.3	3972.1	4012.1	4047.7	4065.5	4081.9	4093.7	4096.7
7.5°	3759.9	3826.6	3936.4	4025.5	4081.9	4114.5	4138.2	4132.3	4138.2	4141.2	4145.7
10°	3798.5	3891.9	4022.5	4107.1	4150.1	4151.6	4145.7	4124.9	4114.5	4116.0	4119.0
12.5°	3844.5	3948.3	4089.3	4160.5	4172.4	4139.7	4114.5	4078.9	4065.5	4059.6	4056.6
15°	3906.8	4025.5	4162.0	4188.7	4159.0	4117.5	4074.4	4016.6	3986.9	3963.2	3970.6
17.5°	3982.4	4113.0	4218.4	4199.1	4135.3	4067.0	3997.3	3909.7	3848.9	3823.7	3825.2
20°	4087.8	4205.0	4261.4	4176.8	4080.4	3976.5	3857.8	3751.0	3694.6	3669.4	3666.4
22.5°	4215.4	4328.2	4302.9	4138.2	4001.7	3835.6	3687.2	3608.5	3580.3	3562.5	3565.5
25°	4368.2	4464.7	4332.6	4081.9	3872.6	3648.6	3534.3	3509.1	3495.8	3482.4	3482.4
27.5°	4567.1	4619.0	4354.9	3998.8	3670.9	3449.8	3408.2	3412.7	3408.2	3386.0	3390.4
30°	4829.7	4819.3	4375.6	3863.7	3439.4	3270.2	3273.2	3292.5	3295.5	3280.6	3288.0
32.5°	5175.4	5070.0	4386.0	3688.7	3218.3	3113.0	3115.9	3136.7	3151.5	3126.3	3138.2
35°	5593.8	5362.4	4369.7	3469.1	3047.7	2963.1	2940.8	2946.8	2951.2	2927.5	2943.8
37.5°	6082.0	5690.3	4297.0	3225.7	2906.7	2816.2	2768.7	2728.7	2704.9	2682.7	2697.5
40°	6617.6	6047.9	4163.5	2988.3	2749.4	2660.4	2589.2	2513.5	2433.4	2403.7	2417.1
42.5°	7178.5	6415.8	4001.7	2761.3	2568.4	2495.7	2420.0	2310.2	2190.0	2129.2	2136.6
45°	7760.1	6792.7	3843.0	2537.3	2382.9	2351.8	2264.2	2132.2	2001.6	1924.5	1918.5
47.5°	8329.9	7148.8	3610.0	2311.7	2209.3	2243.5	2175.2	2053.5	1908.1	1786.5	1773.1
50°	8874.4	7482.7	3228.7	2083.2	2068.4	2210.8	2145.5	1970.4	1804.3	1648.5	1635.1
52.5°	9414.5	7752.7	2740.5	1875.5	1992.7	2201.9	2107.0	1914.1	1710.8	1547.6	1529.8
55°	9873.0	7892.2	2270.2	1697.4	1882.9	2126.2	2061.0	1847.3	1578.7	1405.1	1390.3
57.5°	10134.2	7779.4	1878.5	1522.4	1731.6	2001.6	1982.3	1704.9	1421.5	1287.9	1270.1
60°	10021.4	7322.4	1558.0	1369.5	1587.6	1866.6	1845.8	1563.9	1301.3	1175.1	1157.3
62.5°	9399.7	6451.4	1304.2	1236.0	1457.1	1728.6	1709.3	1455.6	1209.3	1087.6	1068.3
65°	8147.4	5248.1	1106.9	1124.7	1325.0	1562.4	1590.6	1365.1	1136.6	1017.9	998.6
67.5°	6214.0	3801.4	952.6	1028.3	1195.9	1399.2	1480.8	1299.8	1075.7	963.0	945.2
70°	3541.8	2158.9	822.0	934.8	1081.7	1247.9	1396.2	1247.9	1010.4	917.0	905.1
72.5°	1342.8	991.2	710.7	841.3	971.9	1120.2	1302.8	1166.2	934.8	865.0	853.2
75°	716.7	603.9	598.0	731.5	845.8	995.6	1185.5	1086.1	878.4	914.0	943.7
77.5°	488.2	427.3	500.0	626.2	707.8	857.6	1060.9	964.5	761.2	758.2	698.9
80°	338.3	302.7	406.6	504.5	547.5	721.1	925.9	827.9	620.2	578.7	553.4
82.5°	203.3	197.3	304.2	376.9	387.3	556.4	767.1	694.4	507.5	442.2	445.1
85°	111.3	117.2	194.4	221.1	225.5	388.7	600.9	537.1	390.2	327.9	330.9
87.5°	31.2	40.1	71.2	87.5	108.3	201.8	357.6	319.0	195.9	136.5	136.5
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)