

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: P885181

Luminaire Tested: **NAV-SB6B-830-U-T4FT**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885181
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-830-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 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: 29559 lumens
Efficiency: N/A
Efficacy: 134.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

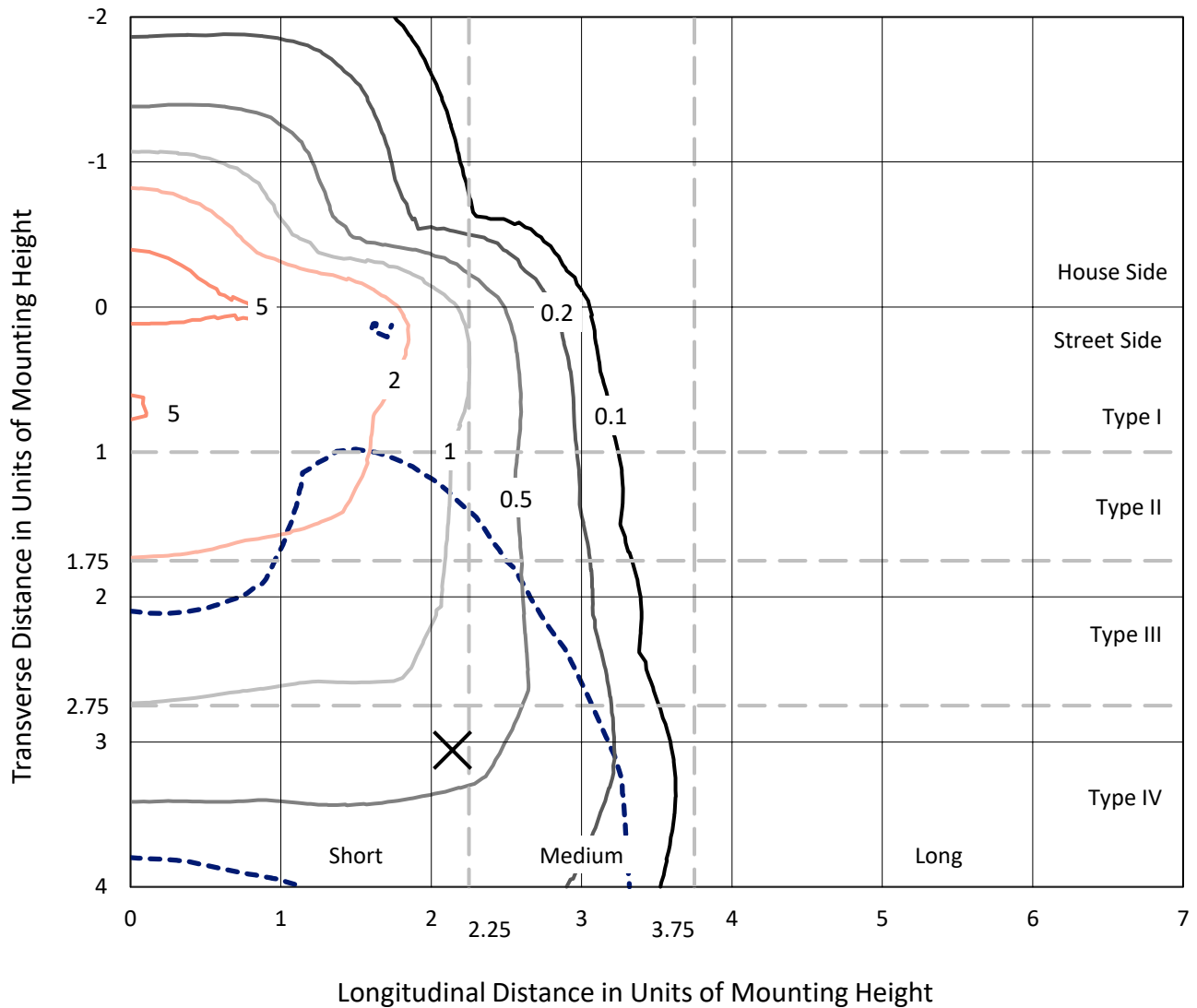
Input Watts (W): 220.4
Input Voltage (V): 120.0
Input Current (Ain): 1.838
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

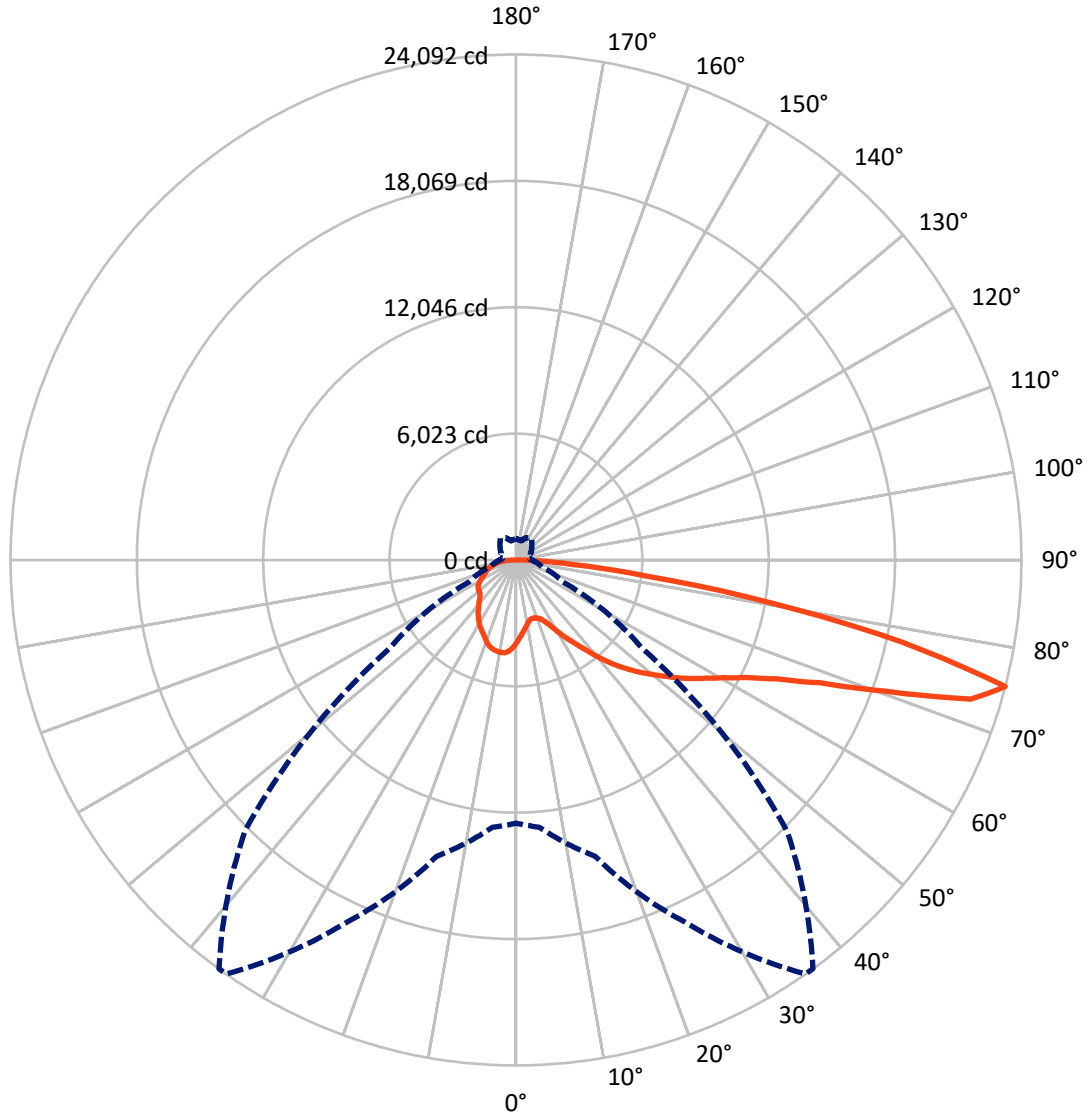
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7034.3	0.0	7034.3
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	22524.7	0.0	22524.7
	% Fixture	76.2	0.0	76.2
Total	Lumens	29559.0	0.0	29559.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.9	1.3
10°-20°	1075.7	3.6
20°-30°	1806.4	6.1
30°-40°	2807.4	9.5
40°-50°	4166.9	14.1
50°-60°	5752.7	19.5
60°-70°	6979.4	23.6
70°-80°	5767.9	19.5
80°-90°	829.6	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°	29559.0	100.0
0°-180°	29559.0	100.0



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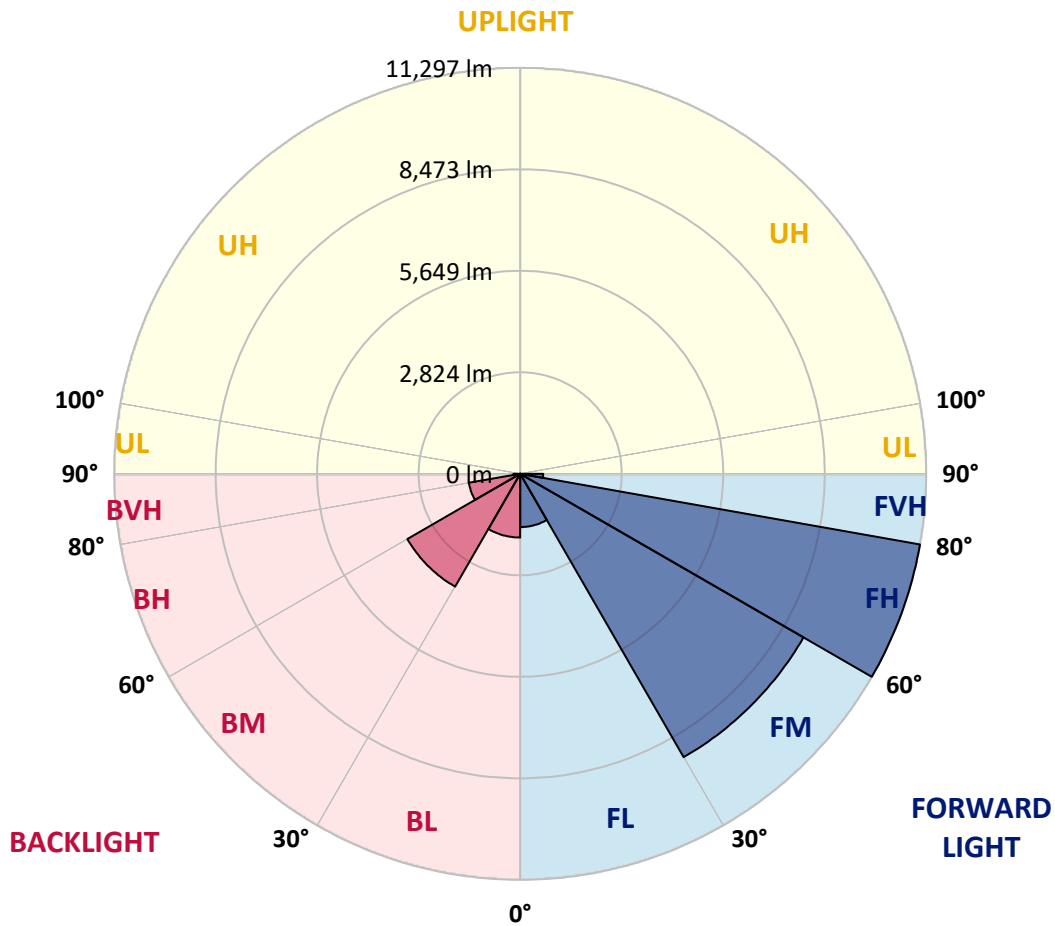
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1482.3	5.0			
FM (30°-60°)	9102.6	30.8			
FH (60°-80°)	11297.0	38.2			G4/12000
FVH (80°-90°)	642.8	2.2			G4/750
BL (0°-30°)	1772.7	6.0	B3/2500		
BM (30°-60°)	3624.5	12.3	B3/5000		
BH (60°-80°)	1450.3	4.9	B3/2500		G3/2500
BVH (80°-90°)	186.8	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°	3938.9	3938.9	3938.9	3938.9	3938.9	3938.9	3938.9	3938.9	3938.9	3938.9	3938.9
2.5°	3632.1	3654.5	3664.1	3659.3	3683.3	3680.1	3713.6	3755.2	3812.7	3868.6	3950.1
5°	3352.5	3376.5	3397.2	3416.4	3462.7	3477.1	3529.9	3609.8	3715.2	3822.3	3956.5
7.5°	3092.0	3112.8	3144.8	3179.9	3258.2	3272.6	3360.5	3485.1	3632.1	3788.7	3974.1
10°	2879.5	2900.3	2933.8	2973.8	3071.3	3088.8	3200.7	3366.9	3558.6	3756.8	3993.3
12.5°	2788.4	2794.8	2814.0	2853.9	2938.6	2949.8	3072.9	3263.0	3486.7	3732.8	4022.0
15°	2783.6	2796.4	2798.0	2818.8	2889.1	2893.9	3007.3	3195.9	3442.0	3728.0	4065.2
17.5°	2831.6	2841.1	2826.8	2839.5	2898.7	2906.7	2996.1	3163.9	3427.6	3748.8	4138.7
20°	2959.4	2967.4	2924.2	2906.7	2949.8	2956.2	3044.1	3184.7	3442.0	3791.9	4239.4
22.5°	3231.0	3235.8	3130.4	3058.5	3061.7	3064.9	3141.6	3269.4	3497.9	3870.2	4367.2
25°	3654.5	3651.3	3483.5	3344.5	3264.6	3247.0	3298.2	3406.8	3592.2	3974.1	4531.8
27.5°	4149.9	4125.9	3958.1	3750.4	3576.2	3550.6	3539.5	3585.8	3726.4	4111.5	4733.1
30°	4709.1	4686.8	4506.2	4234.6	3993.3	3951.7	3846.3	3822.3	3926.2	4298.5	5012.8
32.5°	5322.8	5308.4	5092.7	4763.5	4440.7	4392.8	4215.4	4151.5	4233.0	4581.3	5402.7
35°	5837.3	5824.5	5645.5	5306.8	4912.1	4853.0	4672.4	4600.5	4642.0	4944.0	5912.4
37.5°	6302.3	6295.9	6142.5	5875.6	5468.2	5396.3	5193.3	5169.4	5161.4	5421.8	6530.8
40°	6733.7	6717.8	6558.0	6417.4	6115.3	6049.8	5870.9	5850.1	5789.4	6009.9	7230.7
42.5°	7211.5	7170.0	6938.3	6872.8	6791.3	6736.9	6629.9	6633.1	6498.8	6673.0	7972.2
45°	7601.4	7577.5	7339.4	7301.0	7388.9	7366.5	7459.2	7483.2	7222.7	7368.1	8742.4
47.5°	8020.1	7997.7	7796.4	7769.2	8007.3	8013.7	8341.3	8349.3	7929.0	8090.4	9514.2
50°	8536.2	8504.3	8304.5	8338.1	8604.9	8628.9	9228.1	9173.8	8579.4	8823.9	10279.6
52.5°	8876.6	8895.8	8852.6	8907.0	9271.3	9293.7	10100.6	9961.6	9223.3	9547.7	11030.6
55°	9127.5	9165.8	9300.0	9424.7	9974.4	9996.7	10923.6	10711.0	9757.1	10218.9	11736.9
57.5°	9450.3	9395.9	9646.8	9889.7	10642.3	10701.4	11724.1	11433.3	10230.0	10797.3	12221.1
60°	9913.7	9875.3	10070.3	10429.8	11390.2	11484.4	12571.0	12083.7	10576.8	11255.9	12315.4
62.5°	10853.2	10757.4	10787.7	11105.7	12332.9	12457.6	13526.6	12650.9	10749.4	11434.9	11810.4
65°	12257.8	12093.3	11939.9	12160.4	13660.8	13783.9	14605.2	13096.8	10685.5	11088.1	10469.7
67.5°	14026.8	13863.8	13675.2	13883.0	15616.7	15714.2	15936.3	13347.6	10182.1	9752.3	8100.0
70°	15485.7	15425.0	15650.3	16505.2	18740.7	18743.9	17642.9	13139.9	8803.1	6914.3	4686.8
72.5°	15292.3	15255.6	16442.9	19085.9	22678.0	22593.4	19258.4	11567.5	5930.0	3119.2	1756.1
75°	12545.5	12783.6	14622.8	19039.5	24092.2	24081.0	18269.3	7353.7	2452.8	1292.7	907.6
77.5°	6727.4	7104.5	9493.4	14057.1	18807.8	19090.7	12844.3	2572.7	1053.0	827.7	628.0
80°	2194.0	2523.2	3783.9	7157.2	12221.1	12168.4	5504.9	1009.9	720.7	586.4	434.6
82.5°	931.6	970.0	1690.6	3379.7	6271.9	6174.5	1752.9	580.1	506.5	401.1	268.5
85°	364.3	407.5	746.2	1562.8	2716.5	2657.4	632.8	287.6	324.4	262.1	159.8
87.5°	119.8	145.4	266.9	535.3	845.3	815.0	155.0	99.1	140.6	119.8	57.5
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°	3938.9	3938.9	3938.9	3938.9	3938.9	3938.9	3938.9	3938.9	3938.9	3938.9	3938.9
2.5°	3972.5	3998.1	4028.4	4073.2	4111.5	4143.5	4177.0	4197.8	4205.8	4229.8	4228.2
5°	4001.3	4057.2	4132.3	4205.8	4277.7	4320.8	4359.2	4378.4	4395.9	4408.7	4411.9
7.5°	4049.2	4121.1	4239.4	4335.2	4395.9	4431.1	4456.7	4450.3	4456.7	4459.9	4464.7
10°	4090.7	4191.4	4332.0	4423.1	4469.5	4471.1	4464.7	4442.3	4431.1	4432.7	4435.9
12.5°	4140.3	4252.1	4403.9	4480.6	4493.4	4458.3	4431.1	4392.8	4378.4	4372.0	4368.8
15°	4207.4	4335.2	4482.2	4511.0	4479.0	4434.3	4388.0	4325.6	4293.7	4268.1	4276.1
17.5°	4288.9	4429.5	4543.0	4522.2	4453.5	4380.0	4304.9	4210.6	4145.1	4117.9	4119.5
20°	4402.3	4528.6	4589.3	4498.2	4394.4	4282.5	4154.7	4039.6	3978.9	3951.7	3948.5
22.5°	4539.8	4661.2	4634.0	4456.7	4309.7	4130.7	3970.9	3886.2	3855.8	3836.7	3839.9
25°	4704.4	4808.2	4666.0	4395.9	4170.6	3929.3	3806.3	3779.1	3764.8	3750.4	3750.4
27.5°	4918.5	4974.4	4690.0	4306.5	3953.3	3715.2	3670.5	3675.3	3670.5	3646.5	3651.3
30°	5201.3	5190.1	4712.3	4161.1	3704.0	3521.9	3525.1	3545.8	3549.0	3533.1	3541.0
32.5°	5573.6	5460.2	4723.5	3972.5	3465.9	3352.5	3355.7	3378.1	3394.0	3366.9	3379.7
35°	6024.3	5775.0	4706.0	3736.0	3282.2	3191.1	3167.1	3173.5	3178.3	3152.7	3170.3
37.5°	6550.0	6128.1	4627.7	3473.9	3130.4	3032.9	2981.8	2938.6	2913.1	2889.1	2905.1
40°	7126.8	6513.2	4483.8	3218.3	2961.0	2865.1	2788.4	2706.9	2620.6	2588.7	2603.1
42.5°	7730.9	6909.5	4309.7	2973.8	2766.0	2687.7	2606.2	2488.0	2358.6	2293.1	2301.0
45°	8357.3	7315.4	4138.7	2732.5	2566.3	2532.7	2438.5	2296.2	2155.6	2072.5	2066.1
47.5°	8970.9	7698.9	3887.8	2489.6	2379.3	2416.1	2342.6	2211.6	2055.0	1923.9	1909.5
50°	9557.3	8058.4	3477.1	2243.5	2227.5	2380.9	2310.6	2122.1	1943.1	1775.3	1760.9
52.5°	10139.0	8349.3	2951.4	2019.8	2146.0	2371.4	2269.1	2061.4	1842.4	1666.7	1647.5
55°	10632.7	8499.5	2444.9	1828.1	2027.8	2289.9	2219.5	1989.4	1700.2	1513.3	1497.3
57.5°	10914.0	8378.0	2023.0	1639.5	1864.8	2155.6	2134.9	1836.0	1530.8	1387.0	1367.8
60°	10792.5	7885.9	1677.8	1474.9	1709.8	2010.2	1987.8	1684.2	1401.4	1265.6	1246.4
62.5°	10123.0	6947.9	1404.6	1331.1	1569.2	1861.6	1840.8	1567.6	1302.3	1171.3	1150.5
65°	8774.3	5651.9	1192.1	1211.2	1427.0	1682.6	1713.0	1470.1	1224.0	1096.2	1075.4
67.5°	6692.2	4093.9	1025.9	1107.4	1287.9	1506.9	1594.8	1399.8	1158.5	1037.1	1017.9
70°	3814.3	2325.0	885.3	1006.7	1164.9	1343.9	1503.7	1343.9	1088.2	987.5	974.7
72.5°	1446.1	1067.4	765.4	906.0	1046.7	1206.4	1403.0	1256.0	1006.7	931.6	918.8
75°	771.8	650.4	644.0	787.8	910.8	1072.2	1276.8	1169.7	946.0	984.3	1016.3
77.5°	525.7	460.2	538.5	674.3	762.2	923.6	1142.5	1038.7	819.7	816.6	752.6
80°	364.3	326.0	437.8	543.3	589.6	776.6	997.1	891.7	667.9	623.2	596.0
82.5°	218.9	212.5	327.6	405.9	417.1	599.2	826.1	747.8	546.5	476.2	479.4
85°	119.8	126.2	209.3	238.1	242.9	418.7	647.2	578.5	420.3	353.1	356.3
87.5°	33.6	43.1	76.7	94.3	116.7	217.3	385.1	343.6	210.9	147.0	147.0
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)