

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: P885131

Luminaire Tested: **NAV-SB6B-735-U-T4FT**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885131
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-735-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 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: 33781 lumens
Efficiency: N/A
Efficacy: 153.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

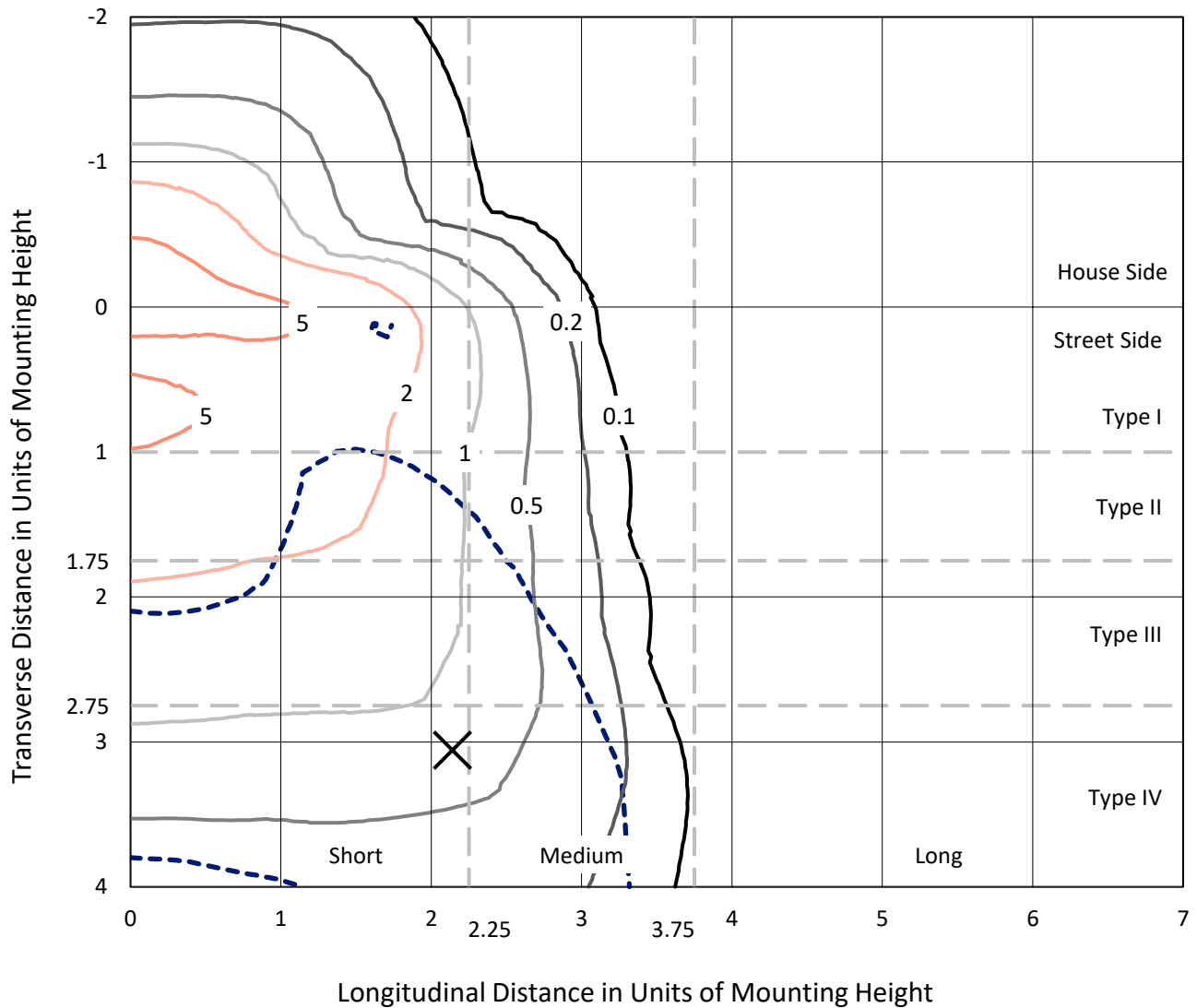
Input Watts (W): 220.4
Input Voltage (V): 120.0
Input Current (Ain): 1.838
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

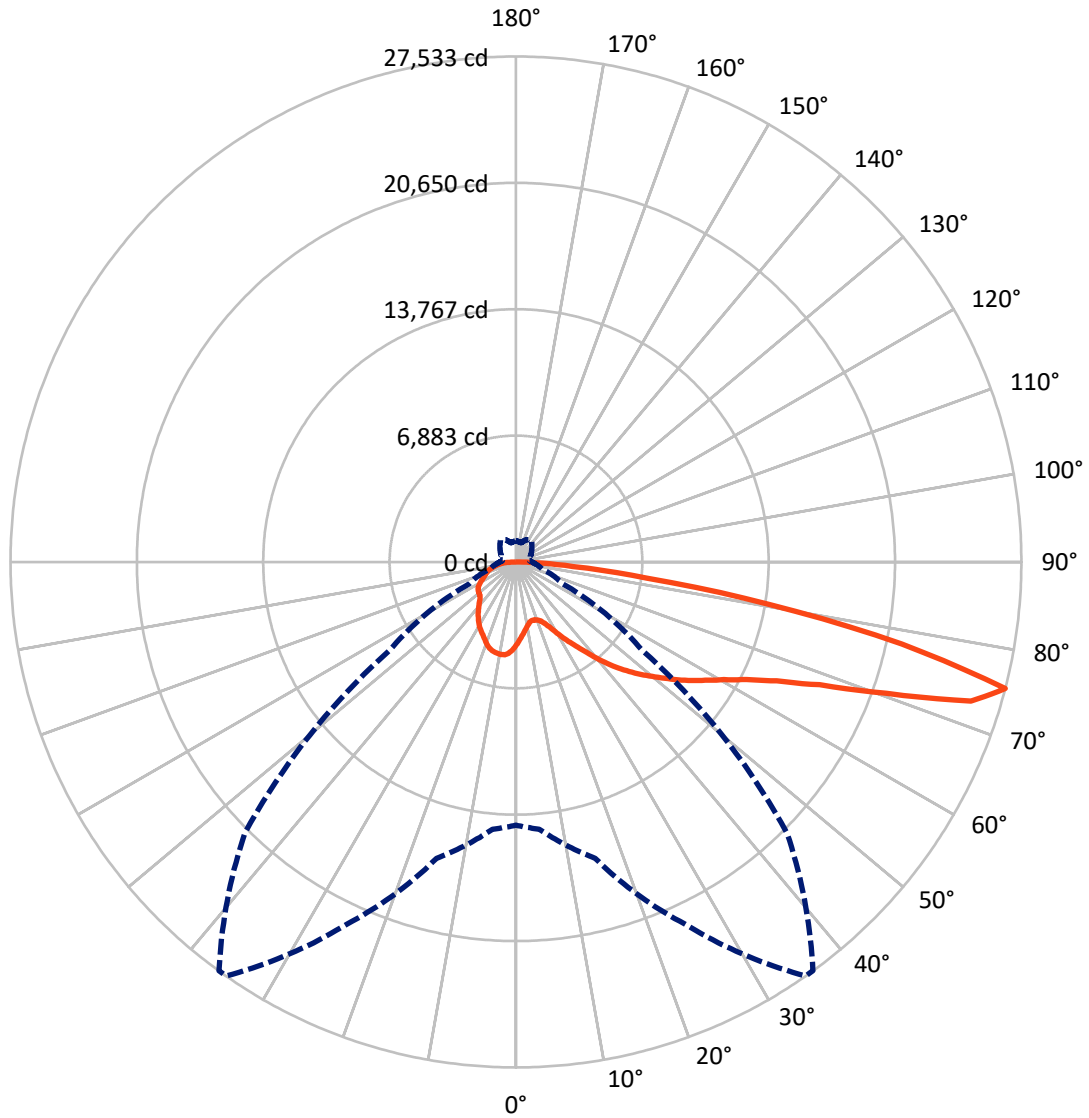
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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	8039.0	0.0	8039.0
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	25742.0	0.0	25742.0
	% Fixture	76.2	0.0	76.2
Total	Lumens	33781.0	0.0	33781.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.2	1.3
10°-20°	1229.4	3.6
20°-30°	2064.4	6.1
30°-40°	3208.4	9.5
40°-50°	4762.1	14.1
50°-60°	6574.4	19.5
60°-70°	7976.2	23.6
70°-80°	6591.8	19.5
80°-90°	948.1	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°	33781.0	100.0
0°-180°	33781.0	100.0



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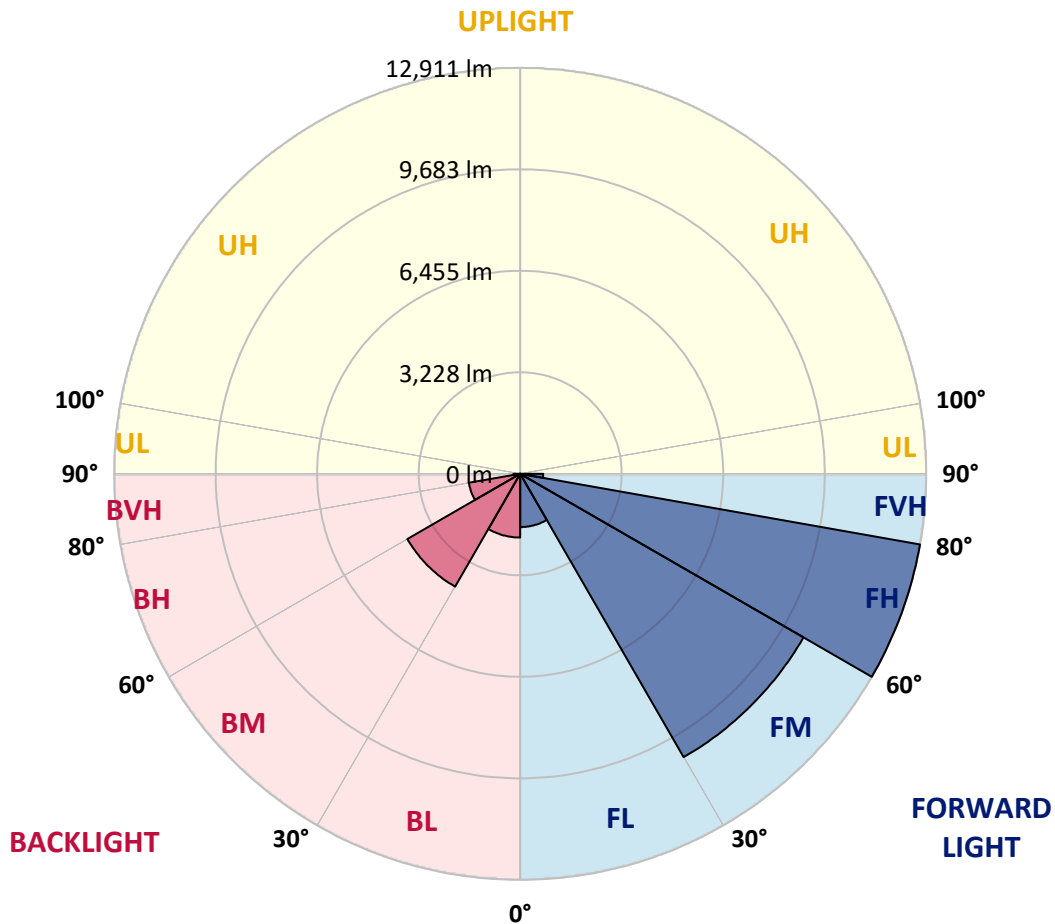
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1694.1	5.0			
FM (30°-60°)	10402.7	30.8			
FH (60°-80°)	12910.6	38.2			G5
FVH (80°-90°)	734.6	2.2			G4/750
BL (0°-30°)	2025.9	6.0	B3/2500		
BM (30°-60°)	4142.2	12.3	B3/5000		
BH (60°-80°)	1657.4	4.9	B3/2500		G3/2500
BVH (80°-90°)	213.5	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-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	4501.5	4501.5	4501.5	4501.5	4501.5	4501.5	4501.5	4501.5	4501.5	4501.5	4501.5
2.5°	4150.9	4176.5	4187.4	4182.0	4209.4	4205.7	4244.1	4291.5	4357.3	4421.2	4514.3
5°	3831.3	3858.7	3882.5	3904.4	3957.3	3973.8	4034.0	4125.4	4245.9	4368.2	4521.6
7.5°	3533.7	3557.4	3593.9	3634.1	3723.6	3740.0	3840.5	3982.9	4150.9	4329.9	4541.7
10°	3290.8	3314.5	3352.9	3398.5	3509.9	3530.0	3657.8	3847.8	4066.9	4293.4	4563.6
12.5°	3186.7	3194.0	3215.9	3261.6	3358.4	3371.1	3511.8	3729.1	3984.7	4266.0	4596.5
15°	3181.2	3195.8	3197.7	3221.4	3301.7	3307.2	3436.9	3652.4	3933.6	4260.5	4645.8
17.5°	3236.0	3247.0	3230.5	3245.1	3312.7	3321.8	3424.1	3615.8	3917.2	4284.2	4729.8
20°	3382.1	3391.2	3341.9	3321.8	3371.1	3378.4	3478.9	3639.6	3933.6	4333.5	4844.9
22.5°	3692.5	3698.0	3577.5	3495.3	3499.0	3502.6	3590.3	3736.4	3997.5	4423.0	4991.0
25°	4176.5	4172.8	3981.1	3822.2	3730.9	3710.8	3769.2	3893.4	4105.3	4541.7	5179.1
27.5°	4742.6	4715.2	4523.5	4286.1	4087.0	4057.8	4045.0	4098.0	4258.7	4698.8	5409.2
30°	5381.8	5356.2	5149.8	4839.4	4563.6	4516.2	4395.6	4368.2	4486.9	4912.4	5728.7
32.5°	6083.0	6066.6	5820.1	5443.9	5075.0	5020.2	4817.5	4744.4	4837.6	5235.7	6174.3
35°	6671.1	6656.4	6451.9	6064.8	5613.7	5546.1	5339.8	5257.6	5305.1	5650.2	6756.9
37.5°	7202.5	7195.2	7019.9	6714.9	6249.2	6167.0	5935.1	5907.7	5898.6	6196.2	7463.6
40°	7695.5	7677.3	7494.7	7334.0	6988.8	6913.9	6709.4	6685.7	6616.3	6868.3	8263.5
42.5°	8241.6	8194.1	7929.3	7854.4	7761.3	7699.2	7576.8	7580.5	7427.1	7626.1	9110.8
45°	8687.2	8659.8	8387.7	8343.8	8444.3	8418.7	8524.6	8552.0	8254.4	8420.5	9991.1
47.5°	9165.6	9140.1	8910.0	8878.9	9151.0	9158.3	9532.7	9541.8	9061.5	9246.0	10873.1
50°	9755.5	9719.0	9490.7	9529.0	9834.0	9861.4	10546.2	10484.1	9804.8	10084.2	11747.9
52.5°	10144.5	10166.4	10117.1	10179.2	10595.5	10621.1	11543.3	11384.4	10540.7	10911.5	12606.2
55°	10431.2	10475.0	10628.4	10770.8	11399.0	11424.6	12483.8	12240.9	11150.7	11678.5	13413.3
57.5°	10800.1	10738.0	11024.7	11302.3	12162.4	12230.0	13398.7	13066.4	11691.2	12339.5	13966.7
60°	11329.7	11285.8	11508.6	11919.5	13017.0	13124.8	14366.6	13809.6	12087.5	12863.6	14074.4
62.5°	12403.5	12293.9	12328.6	12692.0	14094.5	14236.9	15458.7	14457.9	12284.7	13068.2	13497.3
65°	14008.7	13820.6	13645.3	13897.3	15612.1	15752.7	16691.3	14967.4	12211.7	12671.9	11965.2
67.5°	16030.3	15844.0	15628.5	15865.9	17847.3	17958.7	18212.5	15254.1	11636.5	11145.2	9256.9
70°	17697.6	17628.2	17885.7	18862.7	21417.5	21421.2	20162.9	15016.7	10060.5	7901.9	5356.2
72.5°	17476.6	17434.6	18791.4	21812.0	25917.2	25820.4	22009.2	13219.8	6777.0	3564.7	2007.0
75°	14337.4	14609.5	16711.4	21759.0	27533.4	27520.6	20878.8	8404.1	2803.2	1477.4	1037.3
77.5°	7688.2	8119.2	10849.4	16065.0	21494.2	21817.4	14678.9	2940.2	1203.5	946.0	717.7
80°	2507.4	2883.5	4324.4	8179.5	13966.7	13906.4	6291.2	1154.1	823.6	670.2	496.7
82.5°	1064.7	1108.5	1932.1	3862.4	7167.8	7056.4	2003.3	662.9	578.9	458.4	306.8
85°	416.4	465.7	852.8	1786.0	3104.5	3036.9	723.2	328.7	370.7	299.5	182.6
87.5°	137.0	166.2	305.0	611.8	966.1	931.4	177.1	113.2	160.7	137.0	65.7
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°	4501.5	4501.5	4501.5	4501.5	4501.5	4501.5	4501.5	4501.5	4501.5	4501.5	4501.5
2.5°	4539.9	4569.1	4603.8	4654.9	4698.8	4735.3	4773.6	4797.4	4806.5	4833.9	4832.1
5°	4572.8	4636.7	4722.5	4806.5	4888.7	4938.0	4981.8	5003.7	5023.8	5038.4	5042.1
7.5°	4627.6	4709.7	4844.9	4954.4	5023.8	5064.0	5093.2	5085.9	5093.2	5096.9	5102.4
10°	4675.0	4790.1	4950.8	5054.9	5107.8	5109.7	5102.4	5076.8	5064.0	5065.8	5069.5
12.5°	4731.6	4859.5	5033.0	5120.6	5135.2	5095.1	5064.0	5020.2	5003.7	4996.4	4992.8
15°	4808.3	4954.4	5122.4	5155.3	5118.8	5067.7	5014.7	4943.5	4907.0	4877.7	4886.9
17.5°	4901.5	5062.2	5191.8	5168.1	5089.6	5005.6	4919.7	4812.0	4737.1	4706.1	4707.9
20°	5031.1	5175.4	5244.8	5140.7	5022.0	4894.2	4748.1	4616.6	4547.2	4516.2	4512.5
22.5°	5188.2	5327.0	5295.9	5093.2	4925.2	4720.7	4538.1	4441.3	4406.6	4384.7	4388.3
25°	5376.3	5495.0	5332.5	5023.8	4766.3	4490.6	4350.0	4318.9	4302.5	4286.1	4286.1
27.5°	5621.0	5684.9	5359.9	4921.6	4518.0	4245.9	4194.7	4200.2	4194.7	4167.4	4172.8
30°	5944.2	5931.4	5385.4	4755.4	4233.1	4024.9	4028.6	4052.3	4056.0	4037.7	4046.8
32.5°	6369.7	6240.1	5398.2	4539.9	3961.0	3831.3	3835.0	3860.6	3878.8	3847.8	3862.4
35°	6884.7	6599.8	5378.1	4269.6	3751.0	3646.9	3619.5	3626.8	3632.3	3603.1	3623.2
37.5°	7485.5	7003.4	5288.6	3970.1	3577.5	3466.1	3407.7	3358.4	3329.1	3301.7	3320.0
40°	8144.8	7443.5	5124.3	3677.9	3383.9	3274.4	3186.7	3093.6	2994.9	2958.4	2974.9
42.5°	8835.1	7896.4	4925.2	3398.5	3161.1	3071.6	2978.5	2843.4	2695.4	2620.6	2629.7
45°	9550.9	8360.3	4729.8	3122.8	2932.9	2894.5	2786.8	2624.2	2463.5	2368.6	2361.3
47.5°	10252.2	8798.6	4443.1	2845.2	2719.2	2761.2	2677.2	2527.4	2348.5	2198.7	2182.3
50°	10922.4	9209.5	3973.8	2564.0	2545.7	2721.0	2640.7	2425.2	2220.6	2028.9	2012.5
52.5°	11587.1	9541.8	3373.0	2308.3	2452.6	2710.1	2593.2	2355.8	2105.6	1904.7	1882.8
55°	12151.4	9713.5	2794.1	2089.2	2317.4	2616.9	2536.6	2273.6	1943.1	1729.4	1711.1
57.5°	12472.8	9574.7	2312.0	1873.7	2131.2	2463.5	2439.8	2098.3	1749.5	1585.1	1563.2
60°	12334.1	9012.2	1917.5	1685.6	1954.0	2297.3	2271.8	1924.8	1601.6	1446.3	1424.4
62.5°	11568.9	7940.3	1605.2	1521.2	1793.3	2127.5	2103.8	1791.5	1488.3	1338.6	1314.9
65°	10027.6	6459.2	1362.3	1384.2	1630.8	1923.0	1957.7	1680.1	1398.9	1252.8	1229.0
67.5°	7648.1	4678.7	1172.4	1265.5	1471.9	1722.1	1822.5	1599.7	1324.0	1185.2	1163.3
70°	4359.1	2657.1	1011.7	1150.5	1331.3	1535.8	1718.4	1535.8	1243.6	1128.6	1114.0
72.5°	1652.7	1219.9	874.7	1035.4	1196.2	1378.8	1603.4	1435.4	1150.5	1064.7	1050.1
75°	882.0	743.3	736.0	900.3	1040.9	1225.4	1459.1	1336.8	1081.1	1124.9	1161.5
77.5°	600.8	525.9	615.4	770.7	871.1	1055.5	1305.7	1187.0	936.8	933.2	860.1
80°	416.4	372.5	500.4	620.9	673.9	887.5	1139.5	1019.0	763.3	712.2	681.2
82.5°	250.2	242.9	374.4	463.9	476.6	684.8	944.1	854.7	624.6	544.2	547.9
85°	137.0	144.3	239.2	272.1	277.6	478.5	739.6	661.1	480.3	403.6	407.2
87.5°	38.3	49.3	87.7	107.7	133.3	248.4	440.1	392.6	241.1	168.0	168.0
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)