

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: P885361

Luminaire Tested: **NAV-SB6C-835-U-T4FT**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885361
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-SB6C-835-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 615mA 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: 37908 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

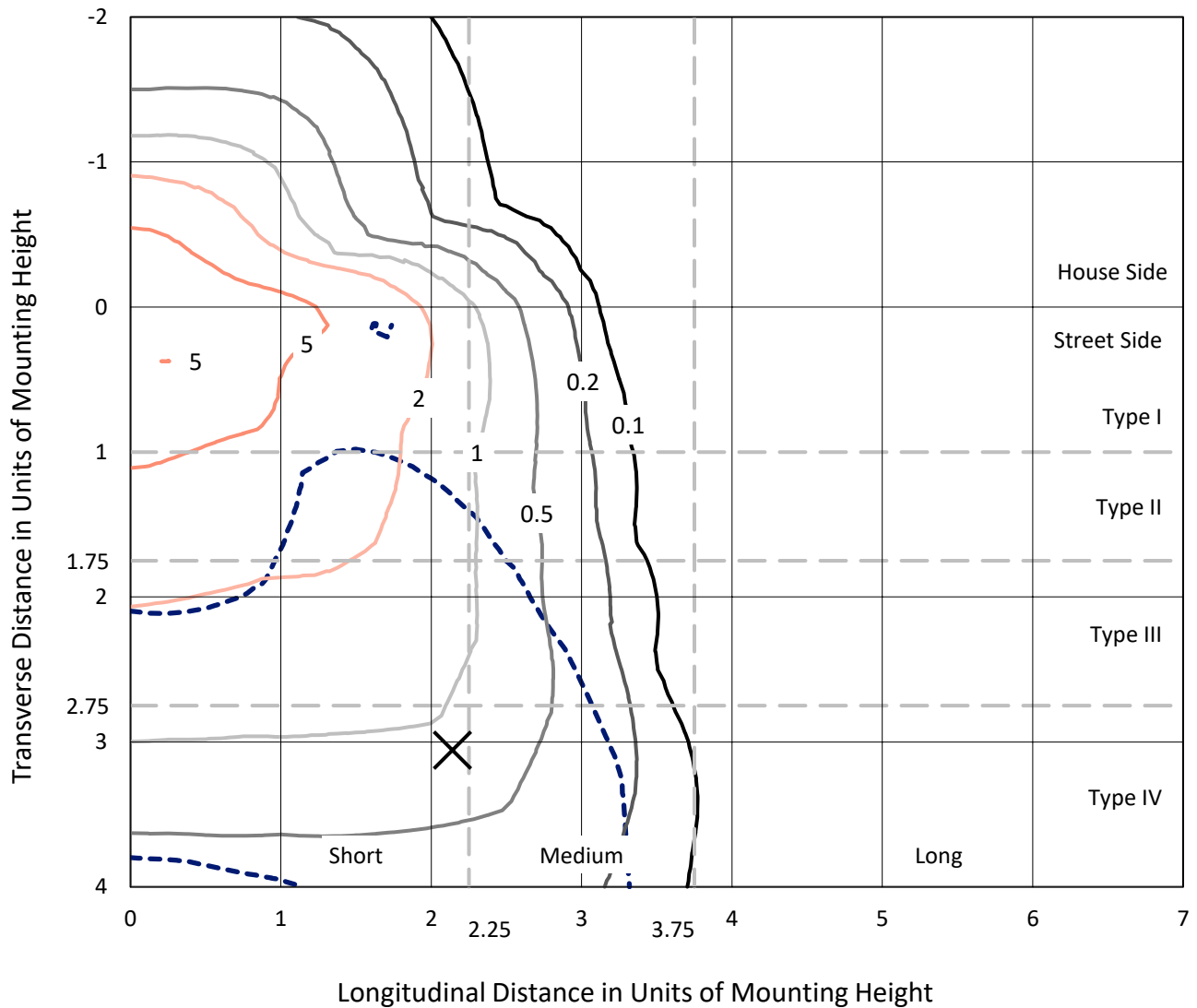
Input Watts (W): 300.9
Input Voltage (V): 120.0
Input Current (Ain): 2.518
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

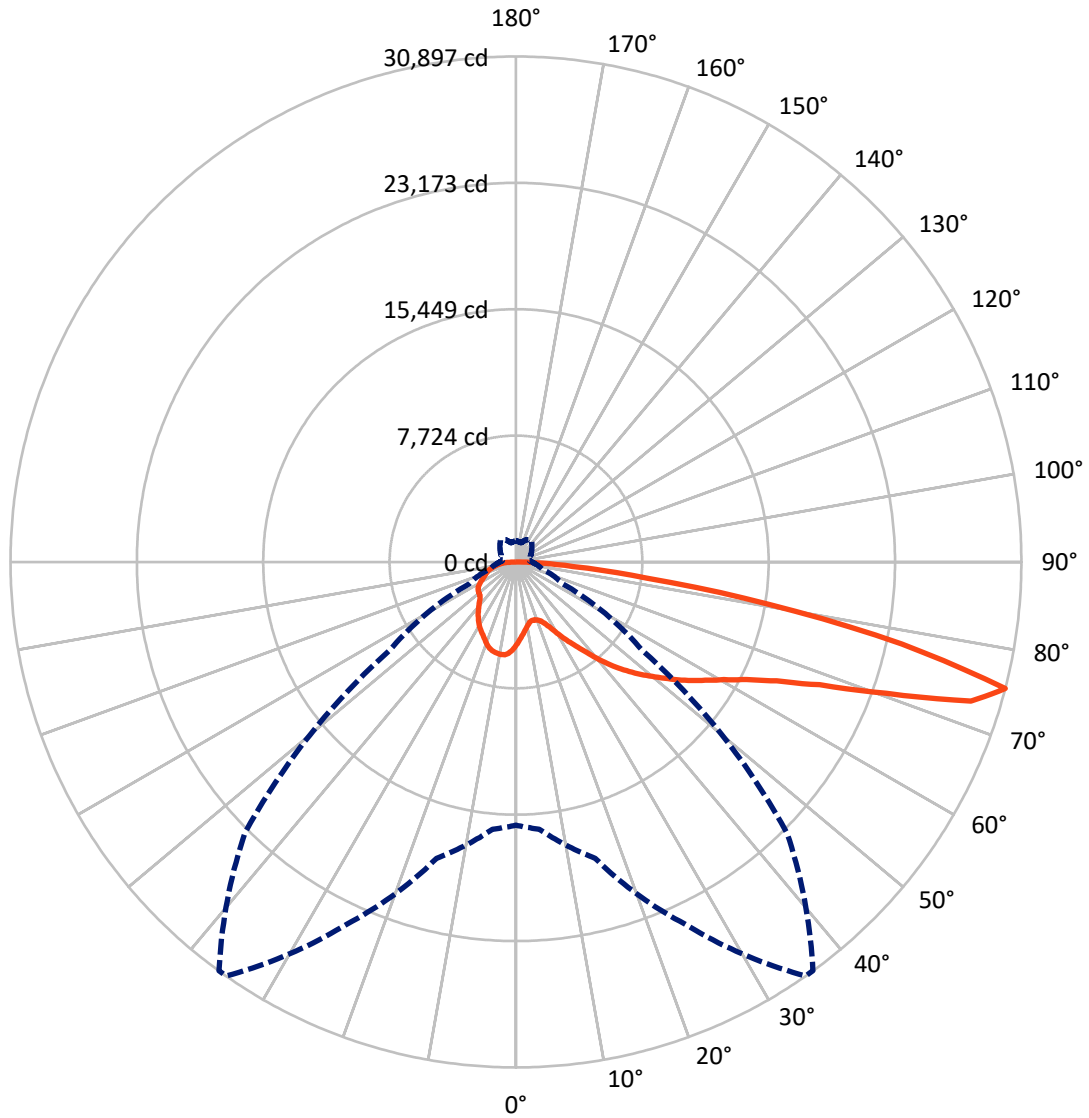
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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	9021.2	0.0	9021.2
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	28886.8	0.0	28886.8
	% Fixture	76.2	0.0	76.2
Total	Lumens	37908.0	0.0	37908.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	478.3	1.3
10°-20°	1379.6	3.6
20°-30°	2316.6	6.1
30°-40°	3600.4	9.5
40°-50°	5343.9	14.1
50°-60°	7377.6	19.5
60°-70°	8950.7	23.6
70°-80°	7397.1	19.5
80°-90°	1063.9	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°	37908.0	100.0
0°-180°	37908.0	100.0

Coefficient of Utilization



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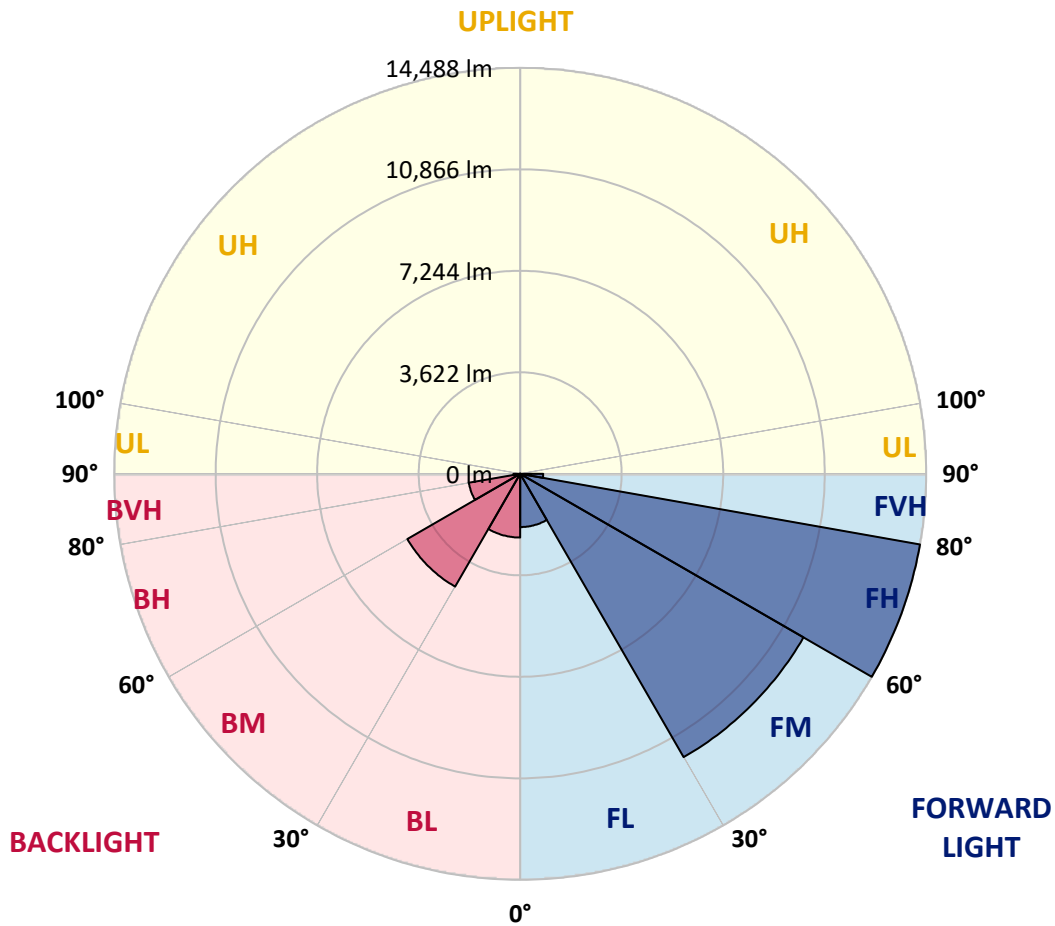
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1901.0	5.0			
FM (30°-60°)	11673.6	30.8			
FH (60°-80°)	14487.9	38.2			G5
FVH (80°-90°)	824.4	2.2			G5
BL (0°-30°)	2273.5	6.0	B3/2500		
BM (30°-60°)	4648.2	12.3	B3/5000		
BH (60°-80°)	1859.9	4.9	B3/2500		G3/2500
BVH (80°-90°)	239.6	0.6			G3/500
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°	5051.5	5051.5	5051.5	5051.5	5051.5	5051.5	5051.5	5051.5	5051.5	5051.5	5051.5
2.5°	4658.0	4686.7	4699.0	4692.9	4723.6	4719.5	4762.5	4815.8	4889.6	4961.3	5065.8
5°	4299.4	4330.1	4356.8	4381.4	4440.8	4459.3	4526.9	4629.3	4764.6	4901.9	5074.0
7.5°	3965.4	3992.0	4033.0	4078.1	4178.5	4196.9	4309.7	4469.5	4658.0	4858.9	5096.6
10°	3692.8	3719.5	3762.5	3813.7	3938.7	3961.3	4104.7	4317.9	4563.8	4817.9	5121.2
12.5°	3576.0	3584.2	3608.8	3660.0	3768.6	3783.0	3940.8	4184.6	4471.5	4787.1	5158.1
15°	3569.9	3586.3	3588.3	3614.9	3705.1	3711.3	3856.8	4098.6	4414.2	4781.0	5213.4
17.5°	3631.3	3643.6	3625.2	3641.6	3717.4	3727.7	3842.4	4057.6	4395.7	4807.6	5307.7
20°	3795.3	3805.5	3750.2	3727.7	3783.0	3791.2	3903.9	4084.2	4414.2	4863.0	5436.8
22.5°	4143.7	4149.8	4014.6	3922.3	3926.4	3930.5	4028.9	4192.8	4485.9	4963.4	5600.7
25°	4686.7	4682.6	4467.5	4289.2	4186.7	4164.2	4229.7	4369.1	4606.8	5096.6	5811.8
27.5°	5322.0	5291.3	5076.1	4809.7	4586.3	4553.5	4539.2	4598.6	4778.9	5272.8	6070.0
30°	6039.3	6010.6	5779.0	5430.6	5121.2	5067.9	4932.6	4901.9	5035.1	5512.6	6428.6
32.5°	6826.2	6807.7	6531.1	6108.9	5695.0	5633.5	5406.0	5324.1	5428.6	5875.3	6928.6
35°	7486.1	7469.7	7240.1	6805.7	6299.5	6223.7	5992.1	5899.9	5953.2	6340.5	7582.4
37.5°	8082.4	8074.2	7877.5	7535.2	7012.7	6920.4	6660.2	6629.4	6619.2	6953.2	8375.4
40°	8635.7	8615.2	8410.3	8229.9	7842.6	7758.6	7529.1	7502.4	7424.6	7707.4	9273.0
42.5°	9248.4	9195.2	8898.0	8814.0	8709.5	8639.8	8502.5	8506.6	8334.5	8557.8	10223.9
45°	9748.5	9717.7	9412.4	9363.2	9475.9	9447.2	9566.1	9596.8	9262.8	9449.3	11211.7
47.5°	10285.4	10256.7	9998.5	9963.6	10269.0	10277.2	10697.3	10707.5	10168.6	10375.6	12201.5
50°	10947.3	10906.3	10650.2	10693.2	11035.4	11066.2	11834.6	11765.0	11002.6	11316.2	13183.1
52.5°	11383.8	11408.4	11353.1	11422.7	11890.0	11918.7	12953.6	12775.3	11828.5	12244.5	14146.2
55°	11705.5	11754.7	11926.9	12086.7	12791.7	12820.4	14008.9	13736.4	12513.0	13105.2	15052.0
57.5°	12119.5	12049.8	12371.6	12683.0	13648.3	13724.1	15035.6	14662.7	13119.5	13847.0	15673.0
60°	12713.8	12664.6	12914.6	13375.7	14607.3	14728.2	16121.8	15496.7	13564.2	14435.2	15793.9
62.5°	13918.8	13795.8	13834.8	14242.6	15816.4	15976.3	17347.2	16224.2	13785.6	14664.7	15146.3
65°	15720.1	15509.0	15312.3	15595.1	17519.4	17677.2	18730.5	16796.0	13703.6	14220.0	13426.9
67.5°	17988.7	17779.6	17537.8	17804.2	20027.7	20152.7	20437.6	17117.7	13058.1	12506.8	10387.8
70°	19859.7	19781.8	20070.7	21167.1	24034.1	24038.2	22626.2	16851.3	11289.5	8867.3	6010.6
72.5°	19611.7	19564.6	21087.2	24476.7	29083.5	28974.9	24698.0	14834.8	7604.9	4000.2	2252.2
75°	16089.0	16394.3	18753.0	24417.3	30897.1	30882.8	23429.5	9430.8	3145.7	1657.9	1164.0
77.5°	8627.5	9111.1	12174.8	18027.6	24120.1	24482.9	16472.2	3299.4	1350.5	1061.5	805.4
80°	2813.7	3235.8	4852.7	9178.8	15673.0	15605.3	7059.8	1295.2	924.2	752.1	557.4
82.5°	1194.7	1243.9	2168.1	4334.2	8043.5	7918.5	2248.1	743.9	649.6	514.4	344.3
85°	467.2	522.6	957.0	2004.2	3483.8	3408.0	811.5	368.9	416.0	336.1	204.9
87.5°	153.7	186.5	342.2	686.5	1084.1	1045.1	198.8	127.1	180.3	153.7	73.8
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°	5051.5	5051.5	5051.5	5051.5	5051.5	5051.5	5051.5	5051.5	5051.5	5051.5	5051.5
2.5°	5094.5	5127.3	5166.3	5223.6	5272.8	5313.8	5356.8	5383.5	5393.7	5424.5	5422.4
5°	5131.4	5203.1	5299.5	5393.7	5485.9	5541.3	5590.5	5615.1	5637.6	5654.0	5658.1
7.5°	5192.9	5285.1	5436.8	5559.7	5637.6	5682.7	5715.5	5707.3	5715.5	5719.6	5725.7
10°	5246.2	5375.3	5555.6	5672.4	5731.9	5733.9	5725.7	5697.0	5682.7	5684.7	5688.8
12.5°	5309.7	5453.2	5647.8	5746.2	5762.6	5717.5	5682.7	5633.5	5615.1	5606.9	5602.8
15°	5395.8	5559.7	5748.3	5785.1	5744.2	5686.8	5627.3	5547.4	5506.4	5473.7	5483.9
17.5°	5500.3	5680.6	5826.1	5799.5	5711.4	5617.1	5520.8	5399.9	5315.9	5281.0	5283.1
20°	5645.8	5807.7	5885.6	5768.7	5635.5	5492.1	5328.2	5180.6	5102.7	5067.9	5063.8
22.5°	5822.0	5977.8	5942.9	5715.5	5526.9	5297.4	5092.5	4983.9	4944.9	4920.3	4924.4
25°	6033.1	6166.3	5983.9	5637.6	5348.6	5039.2	4881.4	4846.6	4828.1	4809.7	4809.7
27.5°	6307.7	6379.4	6014.7	5522.8	5069.9	4764.6	4707.2	4713.4	4707.2	4676.5	4682.6
30°	6670.4	6656.1	6043.4	5336.3	4750.3	4516.6	4520.7	4547.4	4551.5	4531.0	4541.2
32.5°	7147.9	7002.4	6057.7	5094.5	4444.9	4299.4	4303.5	4332.2	4352.7	4317.9	4334.2
35°	7725.8	7406.1	6035.2	4791.2	4209.2	4092.4	4061.7	4069.9	4076.0	4043.2	4065.8
37.5°	8400.0	7859.0	5934.7	4455.2	4014.6	3889.6	3824.0	3768.6	3735.9	3705.1	3725.6
40°	9139.8	8352.9	5750.3	4127.3	3797.3	3674.4	3576.0	3471.5	3360.8	3319.8	3338.3
42.5°	9914.5	8861.1	5526.9	3813.7	3547.3	3446.9	3342.4	3190.7	3024.8	2940.7	2951.0
45°	10717.8	9381.6	5307.7	3504.3	3291.2	3248.1	3127.2	2944.8	2764.5	2657.9	2649.7
47.5°	11504.7	9873.5	4985.9	3192.8	3051.4	3098.5	3004.3	2836.2	2635.4	2467.3	2448.9
50°	12256.8	10334.6	4459.3	2877.2	2856.7	3053.4	2963.3	2721.5	2491.9	2276.8	2258.3
52.5°	13002.7	10707.5	3785.0	2590.3	2752.2	3041.1	2910.0	2643.6	2362.8	2137.4	2112.8
55°	13636.0	10900.2	3135.4	2344.4	2600.5	2936.6	2846.5	2551.4	2180.4	1940.7	1920.2
57.5°	13996.6	10744.4	2594.4	2102.6	2391.5	2764.5	2737.9	2354.6	1963.2	1778.8	1754.2
60°	13840.9	10113.2	2151.8	1891.5	2192.7	2578.0	2549.3	2160.0	1797.2	1623.0	1598.4
62.5°	12982.2	8910.3	1801.3	1707.1	2012.4	2387.4	2360.8	2010.4	1670.2	1502.1	1475.5
65°	11252.6	7248.3	1528.8	1553.4	1830.0	2157.9	2196.8	1885.3	1569.8	1405.8	1379.2
67.5°	8582.4	5250.3	1315.6	1420.2	1651.7	1932.5	2045.2	1795.2	1485.7	1330.0	1305.4
70°	4891.7	2981.7	1135.3	1291.1	1493.9	1723.5	1928.4	1723.5	1395.6	1266.5	1250.1
72.5°	1854.6	1368.9	981.6	1161.9	1342.3	1547.2	1799.3	1610.7	1291.1	1194.7	1178.3
75°	989.8	834.1	825.9	1010.3	1168.1	1375.1	1637.4	1500.1	1213.2	1262.4	1303.3
77.5°	674.2	590.2	690.6	864.8	977.5	1184.5	1465.2	1332.0	1051.3	1047.2	965.2
80°	467.2	418.1	561.5	696.8	756.2	996.0	1278.8	1143.5	856.6	799.2	764.4
82.5°	280.8	272.6	420.1	520.5	534.9	768.5	1059.5	959.1	700.9	610.7	614.8
85°	153.7	161.9	268.5	305.3	311.5	536.9	830.0	741.8	539.0	452.9	457.0
87.5°	43.0	55.3	98.4	120.9	149.6	278.7	493.9	440.6	270.5	188.5	188.5
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)