

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: P885354

Luminaire Tested: **NAV-SB6C-835-U-SL4**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885354
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-835-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38019 lumens
Efficiency: N/A
Efficacy: 126.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

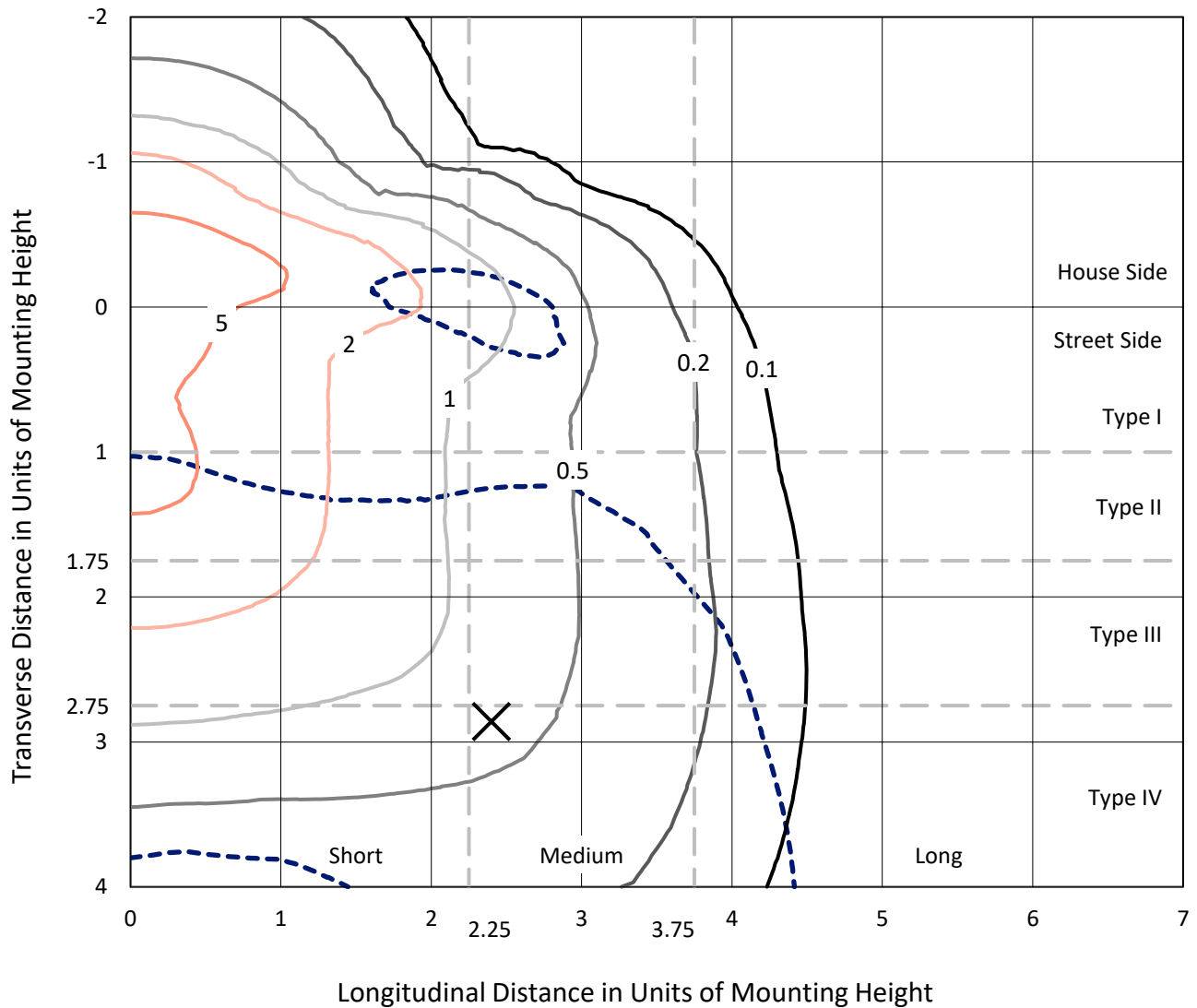
Input Watts (W): 300.9
Input Voltage (V): 120.0
Input Current (Ain): 2.518
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P885354
 CATALOG NUMBER: NAV-SB6C-835-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

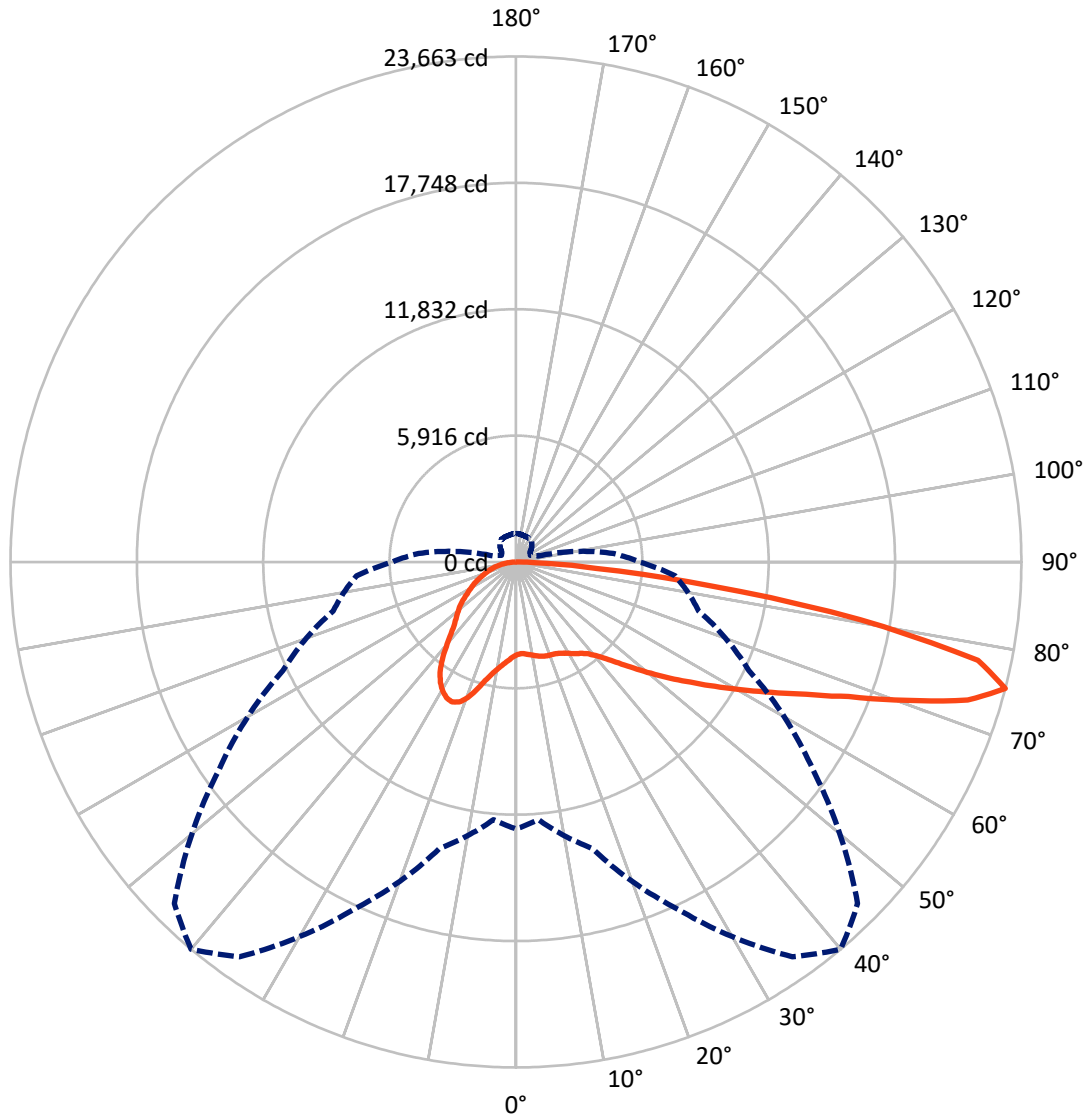
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type IV - Medium - N/A

REPORT NUMBER: P885354
CATALOG NUMBER: NAV-SB6C-835-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11779.5	0.0	11779.5
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	26239.4	0.0	26239.4
	% Fixture	69.0	0.0	69.0
Total	Lumens	38019.0	0.0	38019.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	434.0	1.1
10°-20°	1457.0	3.8
20°-30°	2660.4	7.0
30°-40°	3773.2	9.9
40°-50°	5094.9	13.4
50°-60°	6854.0	18.0
60°-70°	8699.4	22.9
70°-80°	7895.2	20.8
80°-90°	1150.9	3.0
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°	38019.0	100.0
0°-180°	38019.0	100.0



REPORT NUMBER: P885354

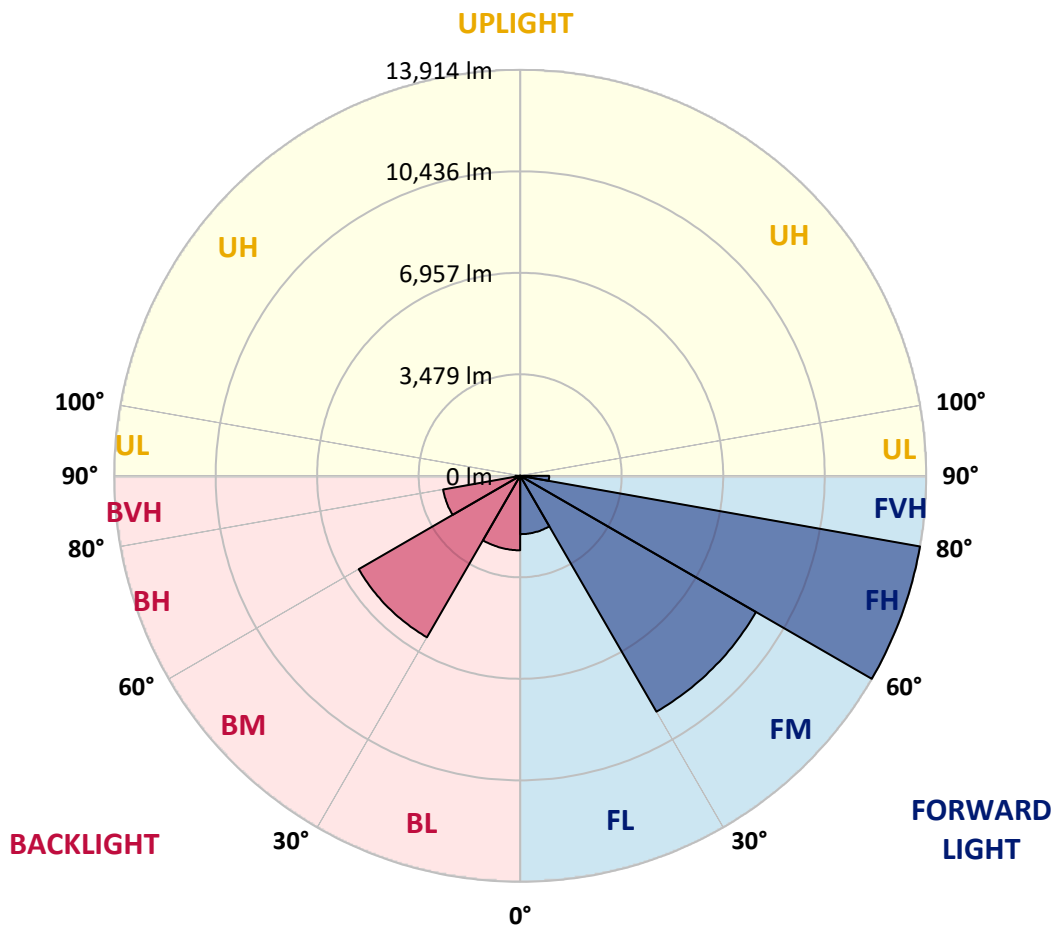
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1999.8	5.3			
FM (30°-60°)	9332.8	24.5			
FH (60°-80°)	13914.4	36.6			G5
FVH (80°-90°)	992.4	2.6			G5
BL (0°-30°)	2551.6	6.7	B4/5000		
BM (30°-60°)	6389.3	16.8	B4/8500		
BH (60°-80°)	2680.2	7.0	B4/5000		G4/5000
BVH (80°-90°)	158.4	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



REPORT NUMBER: P885354

CATALOG NUMBER: NAV-SB6C-835-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4347.5	4347.5	4347.5	4347.5	4347.5	4347.5	4347.5	4347.5	4347.5	4347.5	4347.5
2.5°	4281.0	4305.2	4299.1	4291.1	4291.1	4293.1	4291.1	4305.2	4319.3	4333.4	4355.6
5°	4325.3	4349.5	4337.4	4327.4	4319.3	4317.3	4311.2	4309.2	4317.3	4335.4	4365.7
7.5°	4412.1	4436.2	4418.1	4400.0	4383.8	4375.8	4367.7	4355.6	4349.5	4359.6	4402.0
10°	4508.8	4533.0	4510.9	4478.6	4452.4	4442.3	4434.2	4422.1	4414.1	4420.1	4466.5
12.5°	4605.6	4629.8	4599.6	4555.2	4520.9	4514.9	4504.8	4500.8	4498.8	4496.7	4543.1
15°	4696.4	4716.5	4678.2	4625.8	4589.5	4579.4	4569.3	4575.4	4585.5	4597.6	4650.0
17.5°	4767.0	4787.1	4730.7	4662.1	4627.8	4623.8	4617.7	4637.9	4666.1	4696.4	4760.9
20°	4831.5	4851.6	4779.0	4686.3	4646.0	4646.0	4648.0	4690.3	4730.7	4775.0	4863.7
22.5°	4922.2	4938.4	4849.6	4722.6	4664.1	4668.1	4684.3	4726.6	4777.0	4837.5	4960.5
25°	5057.3	5069.4	4960.5	4791.1	4724.6	4736.7	4750.8	4771.0	4819.4	4890.0	5055.3
27.5°	5275.1	5285.2	5142.0	4912.1	4811.3	4831.5	4851.6	4837.5	4859.7	4920.2	5131.9
30°	5581.6	5587.7	5406.2	5101.7	4958.5	4968.6	4972.6	4914.2	4871.8	4920.2	5186.4
32.5°	5944.6	5942.6	5726.8	5331.6	5125.9	5115.8	5081.5	4966.6	4867.8	4910.1	5234.8
35°	6507.2	6485.0	6206.7	5654.2	5315.4	5252.9	5172.3	5025.1	4887.9	4900.0	5277.1
37.5°	7438.8	7370.2	6985.1	6182.5	5597.7	5438.4	5319.5	5119.8	4932.3	4896.0	5327.5
40°	8489.4	8402.7	7979.2	6906.4	6021.2	5765.1	5573.5	5254.9	5004.9	4914.2	5402.1
42.5°	9735.5	9612.5	9156.8	7759.4	6557.6	6186.5	5898.2	5426.3	5111.8	4972.6	5503.0
45°	11266.1	11102.7	10457.4	8721.3	7233.1	6739.1	6353.9	5686.5	5275.1	5085.6	5654.2
47.5°	12812.7	12853.0	11935.5	9822.3	8043.7	7420.6	6924.6	6077.7	5513.0	5267.0	5898.2
50°	14456.1	14484.4	13405.5	11042.2	8963.2	8190.9	7565.8	6515.2	5843.7	5525.1	6263.2
52.5°	15738.6	15742.6	14740.4	12318.7	9921.1	9037.8	8257.5	7015.3	6226.9	5867.9	6749.1
55°	16541.2	16531.1	15676.1	13526.5	11022.1	9927.1	9023.7	7584.0	6694.7	6271.2	7360.1
57.5°	17123.9	17093.7	16321.4	14565.0	12195.6	10977.7	9890.8	8229.2	7247.2	6751.2	8164.7
60°	17345.7	17327.6	16758.9	15462.3	13429.7	12139.2	10891.0	8951.1	7874.3	7317.8	9199.2
62.5°	17430.4	17464.7	17188.4	16331.4	14750.5	13425.7	11990.0	9814.2	8580.1	7959.0	10290.1
65°	17728.9	17791.4	17734.9	17468.7	16242.7	14932.0	13447.9	10840.6	9350.4	8646.7	11429.4
67.5°	18319.7	18382.2	18406.4	18829.9	18065.6	16809.3	15266.7	12119.0	10251.8	9360.5	12286.4
70°	18305.6	18287.4	18714.9	19912.7	20348.3	19408.6	17718.8	13691.9	11326.5	9953.3	12395.3
72.5°	16662.1	16517.0	17527.2	19900.6	22247.8	22122.8	20713.2	15720.5	12254.1	10025.9	10755.9
75°	12500.1	12113.0	13897.6	17934.5	22564.4	23663.4	22616.8	16978.7	12034.3	8858.4	7485.2
77.5°	5345.7	4956.5	7059.7	13276.5	20195.0	22120.7	20870.5	14813.0	9606.5	5857.9	3676.0
80°	1399.4	1397.4	2133.4	6019.2	13734.2	16335.5	14331.1	9566.2	5488.8	2093.1	1014.3
82.5°	578.7	564.6	784.4	2341.1	6710.8	9166.9	7481.1	4266.9	1982.2	566.6	336.8
85°	215.8	213.7	381.1	808.6	2367.3	3780.9	2736.4	1090.9	494.0	276.3	151.2
87.5°	60.5	58.5	82.7	280.3	576.7	875.2	467.8	179.5	139.1	108.9	44.4
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: P885354

CATALOG NUMBER: NAV-SB6C-835-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4347.5	4347.5	4347.5	4347.5	4347.5	4347.5	4347.5	4347.5	4347.5	4347.5	4347.5
2.5°	4361.6	4371.7	4389.9	4404.0	4422.1	4442.3	4470.5	4488.7	4506.8	4518.9	4510.9
5°	4379.8	4402.0	4448.3	4494.7	4549.2	4599.6	4658.1	4700.4	4734.7	4744.8	4748.8
7.5°	4420.1	4456.4	4535.1	4613.7	4700.4	4783.1	4867.8	4940.4	4998.8	5021.0	5023.0
10°	4490.7	4539.1	4650.0	4760.9	4875.8	5002.9	5111.8	5216.6	5299.3	5333.6	5335.6
12.5°	4579.4	4639.9	4785.1	4938.4	5097.7	5273.1	5414.2	5543.3	5646.1	5692.5	5692.5
15°	4694.4	4773.0	4958.5	5164.2	5398.1	5642.1	5821.6	5964.7	6079.7	6136.1	6132.1
17.5°	4819.4	4924.2	5158.1	5468.7	5803.4	6124.0	6333.8	6438.6	6557.6	6612.0	6610.0
20°	4940.4	5069.4	5404.2	5855.8	6301.5	6642.3	6811.7	6839.9	6848.0	6854.0	6870.1
22.5°	5065.4	5238.8	5712.7	6343.8	6821.7	7057.7	7081.9	6960.9	6791.5	6712.9	6735.0
25°	5202.5	5432.4	6116.0	6882.2	7269.4	7297.6	7112.1	6817.7	6497.1	6349.9	6372.1
27.5°	5335.6	5656.2	6599.9	7396.4	7592.0	7344.0	6944.7	6527.3	6140.2	5984.9	6003.1
30°	5468.7	5912.3	7134.3	7846.1	7739.2	7229.1	6680.6	6214.8	5825.6	5662.3	5680.4
32.5°	5603.8	6210.7	7749.3	8170.8	7713.0	6985.1	6351.9	5863.9	5521.1	5349.7	5371.9
35°	5757.0	6577.7	8332.1	8348.2	7537.6	6626.1	5918.4	5444.5	5146.0	5008.9	5039.2
37.5°	5956.7	7043.6	8846.3	8392.6	7231.1	6099.8	5380.0	4948.4	4702.4	4639.9	4684.3
40°	6204.7	7604.1	9239.5	8322.0	6777.4	5460.6	4791.1	4446.3	4307.2	4321.3	4369.7
42.5°	6527.3	8231.3	9515.8	8140.5	6146.2	4801.2	4274.9	4121.7	4188.2	4244.7	4297.1
45°	6946.8	8882.6	9687.2	7832.0	5432.4	4242.7	3970.4	4006.7	4057.2	4063.2	4103.5
47.5°	7483.1	9542.0	9800.1	7366.2	4704.4	3849.5	3776.9	3784.9	3774.8	3732.5	3764.8
50°	8152.6	10183.2	9900.9	6749.1	4085.4	3603.4	3506.7	3478.4	3339.3	3202.2	3220.3
52.5°	8914.8	10772.0	9943.2	5982.9	3603.4	3397.8	3240.5	3063.0	2802.9	2760.6	2774.7
55°	9761.8	11316.5	9834.4	5041.2	3198.1	3133.6	2895.7	2681.9	2653.7	2617.4	2623.4
57.5°	10774.0	11903.3	9612.5	3990.6	2782.7	2825.1	2593.2	2617.4	2567.0	2510.5	2500.4
60°	11881.1	12510.2	9223.4	3032.8	2353.2	2439.9	2514.5	2512.5	2498.4	2452.0	2435.9
62.5°	12877.2	12909.5	8457.1	2323.0	1976.1	2141.5	2345.2	2343.1	2331.0	2304.8	2294.8
65°	13470.1	12849.0	7178.7	1828.9	1665.6	1895.5	2115.3	2131.4	2133.4	2131.4	2131.4
67.5°	13365.2	12141.2	5424.3	1455.9	1409.5	1645.4	1887.4	1909.6	1925.7	1929.8	1933.8
70°	12179.5	10586.5	3536.9	1161.5	1181.7	1425.6	1671.7	1693.8	1708.0	1724.1	1732.2
72.5°	9493.6	7783.6	2024.5	939.7	982.0	1236.1	1457.9	1484.1	1492.2	1522.4	1534.5
75°	5785.3	4577.4	1092.9	740.0	806.6	1056.6	1246.2	1276.4	1290.5	1326.8	1330.9
77.5°	2750.5	1982.2	623.1	576.7	649.3	863.1	1052.6	1086.9	1048.6	1068.7	1052.6
80°	929.6	736.0	393.2	439.6	496.1	673.5	842.9	877.2	796.5	792.5	784.4
82.5°	324.7	298.4	250.0	292.4	320.6	481.9	637.2	681.6	592.8	590.8	562.6
85°	127.0	121.0	139.1	159.3	191.6	296.4	419.4	441.6	365.0	294.4	290.4
87.5°	26.2	28.2	34.3	36.3	58.5	102.8	151.2	185.5	147.2	125.0	114.9
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)