

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: P971052

Luminaire Tested: **NAV-SB6C-830-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971052
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-830-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32804.1 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

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

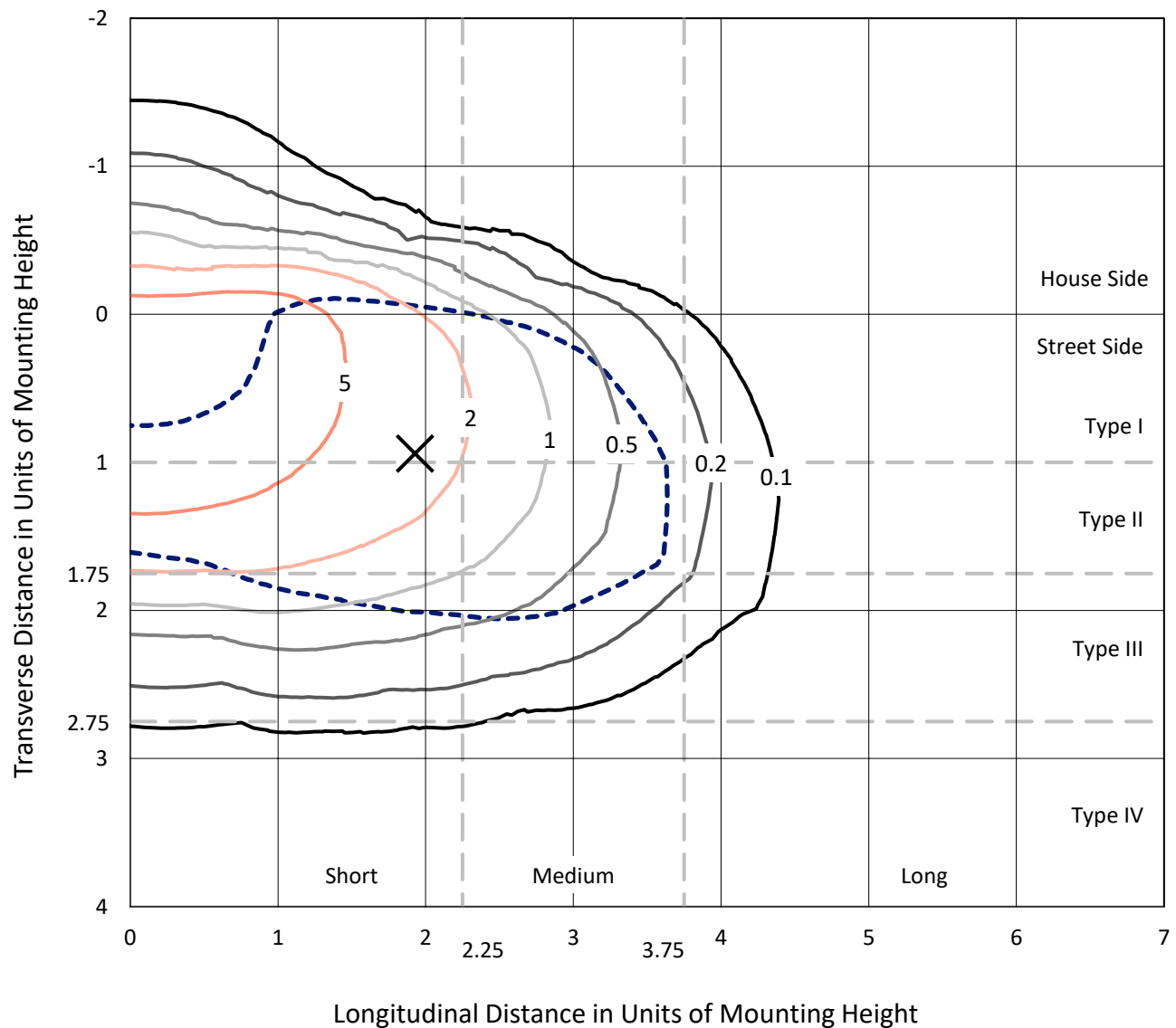


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

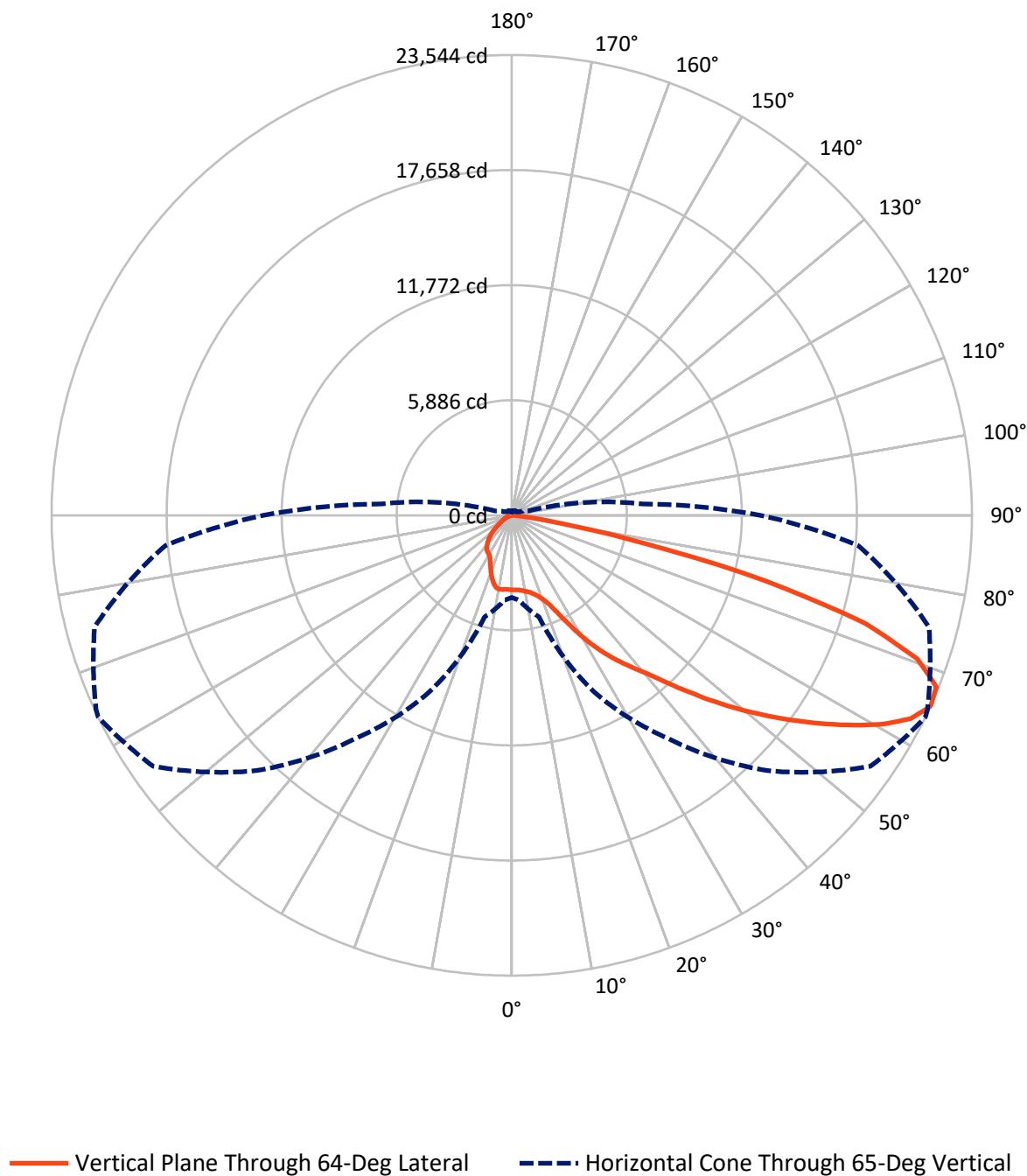


Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4386.9	0.0	4386.9
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	28417.2	0.0	28417.2
	% Fixture	86.6	0.0	86.6
Total	Lumens	32804.1	0.0	32804.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.0	1.1
10°-20°	954.8	2.9
20°-30°	1809.2	5.5
30°-40°	3661.0	11.2
40°-50°	6236.5	19.0
50°-60°	8481.1	25.9
60°-70°	7964.2	24.3
70°-80°	3190.8	9.7
80°-90°	154.6	0.5
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°	32804.1	100.0
0°-180°	32804.1	100.0

Coefficient of Utilization



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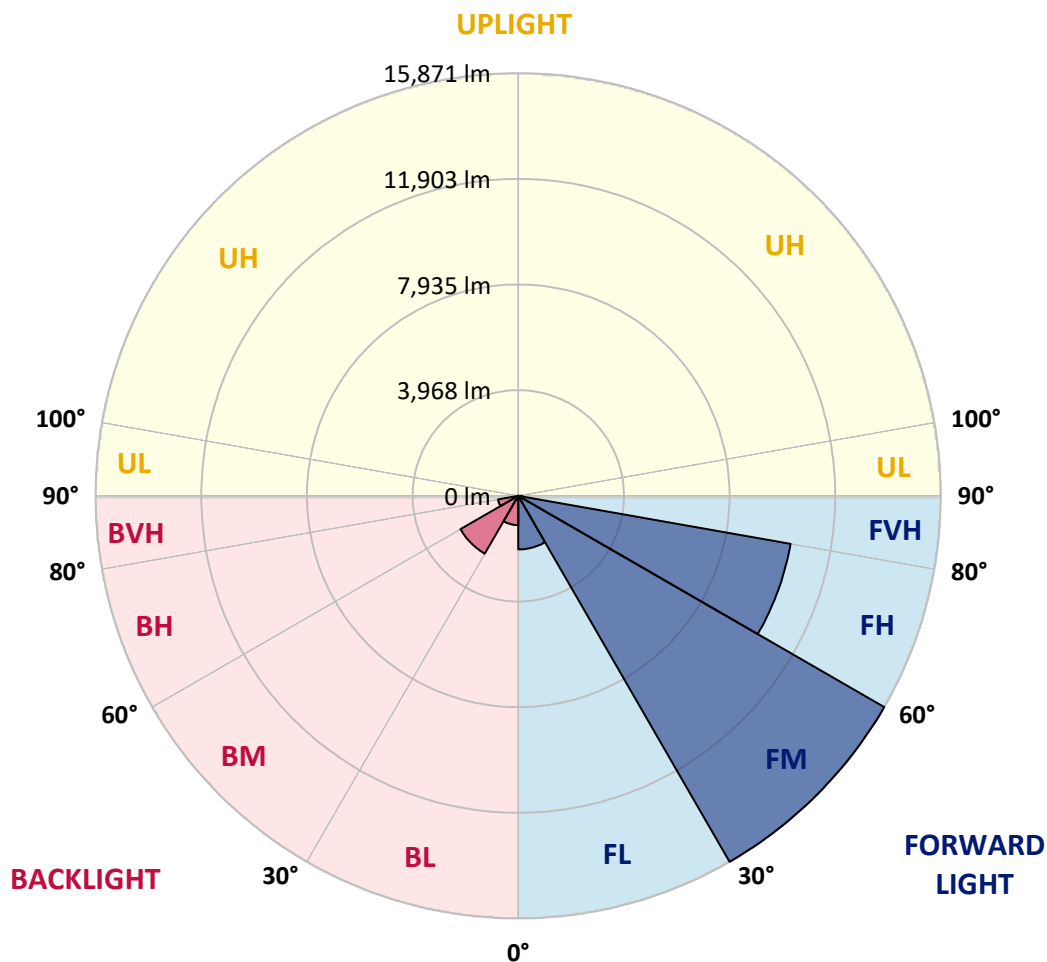
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2014.5	6.1			
FM	(30°-60°)	15870.6	48.4			
FH	(60°-80°)	10385.0	31.7			G4/12000
FVH	(80°-90°)	147.0	0.4			G2/225
BL	(0°-30°)	1101.4	3.4	B3/2500		
BM	(30°-60°)	2508.0	7.6	B3/5000		
BH	(60°-80°)	770.0	2.3	B2/1000		G2/1000
BVH	(80°-90°)	7.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3815.5	3815.5	3815.5	3815.5	3815.5	3815.5	3815.5	3815.5	3815.5	3815.5	3815.5
2.5°	3802.2	3828.7	3822.0	3815.5	3813.3	3817.6	3819.9	3817.6	3817.6	3817.6	3819.9
5°	3729.7	3751.7	3751.7	3767.1	3789.1	3815.5	3835.2	3839.6	3844.1	3850.6	3848.5
7.5°	3591.2	3608.7	3621.9	3672.5	3727.5	3797.8	3857.3	3888.0	3892.4	3916.6	3925.4
10°	3496.6	3518.6	3540.6	3593.3	3672.5	3778.0	3879.2	3954.0	3965.0	4022.2	4048.5
12.5°	3492.2	3514.2	3542.8	3599.9	3692.4	3804.5	3927.6	4035.3	4055.2	4138.7	4193.7
15°	3538.4	3564.7	3591.2	3661.5	3760.5	3896.8	4028.8	4162.9	4182.7	4301.4	4360.9
17.5°	3632.9	3668.2	3688.0	3758.3	3863.8	4015.5	4189.3	4343.2	4360.9	4499.3	4574.2
20°	3819.9	3861.7	3868.2	3925.4	4028.8	4191.5	4398.2	4589.5	4611.6	4769.8	4853.5
22.5°	4206.9	4266.3	4213.5	4242.1	4334.4	4497.2	4721.5	4963.4	4994.2	5174.5	5249.2
25°	4888.6	4972.2	4835.8	4787.5	4827.0	4996.4	5277.8	5583.6	5618.7	5763.9	5801.3
27.5°	6227.9	6120.2	5913.4	5711.1	5592.3	5689.1	6005.8	6384.0	6428.0	6568.7	6524.7
30°	7699.1	7604.5	7325.3	6876.6	6595.2	6579.8	6872.2	7294.4	7345.0	7479.2	7345.0
32.5°	9172.5	9082.3	8778.8	8226.9	7738.6	7496.7	7699.1	8167.5	8193.8	8279.6	8081.7
35°	10621.7	10529.3	10225.9	9660.7	9060.4	8510.6	8471.0	8998.8	9007.6	9097.7	8803.0
37.5°	12079.7	12002.7	11679.5	11125.3	10533.7	9775.0	9407.8	9786.1	9797.1	9885.0	9579.3
40°	13119.9	13152.9	12930.8	12501.9	11993.9	11164.9	10459.0	10623.9	10557.9	10705.3	10522.8
42.5°	14012.8	14078.7	13885.2	13669.7	13375.0	12644.9	11760.8	11732.3	11626.7	11705.9	11516.7
45°	14784.6	14839.6	14665.9	14615.3	14608.7	14096.3	13183.7	13012.2	12864.8	12849.4	12622.9
47.5°	15068.3	15173.9	15248.6	15417.9	15747.8	15532.3	14654.8	14388.7	14223.8	14102.9	13744.4
50°	15176.0	15288.2	15543.3	16035.9	16816.6	16909.0	16119.5	15820.4	15618.1	15398.2	14870.4
52.5°	15030.9	15231.1	15574.1	16403.2	17535.7	18012.9	17524.7	17263.0	17032.1	16673.7	15890.8
55°	14175.4	14375.6	15077.1	16398.8	17894.1	18787.0	18852.9	18736.4	18477.0	17911.8	16715.4
57.5°	12372.2	12669.1	13779.6	15840.1	17887.6	19453.4	20154.9	20238.4	19948.1	19138.9	17364.2
60°	9874.0	10276.4	11631.1	14602.0	17335.6	19814.0	21296.2	21714.0	21406.1	20348.4	17889.7
62.5°	6889.8	7356.0	8638.1	12662.4	16073.3	19554.5	22129.6	22901.6	22668.4	21430.3	18092.1
65°	4202.5	4352.0	5385.7	9964.1	13927.0	18468.1	22386.9	23543.6	23466.8	22092.2	17793.0
67.5°	2799.5	2924.8	3221.7	6832.6	10810.9	16297.6	21771.2	23431.5	23453.5	21984.5	16697.9
70°	1686.7	1794.5	1988.0	3973.8	7006.4	12900.0	19864.6	22002.1	22129.6	20544.1	14621.9
72.5°	694.9	767.5	943.4	1801.0	3628.5	8187.3	15818.2	18890.3	19187.3	17274.0	11222.1
75°	393.6	431.0	554.2	903.8	1574.6	3815.5	9581.5	13410.2	13847.9	11906.0	6751.3
77.5°	261.7	279.3	358.4	585.0	886.2	1301.9	4094.8	6986.6	7822.3	6502.8	2922.6
80°	175.9	191.4	246.3	391.4	576.2	558.6	1304.1	2588.3	3184.3	2234.3	712.5
82.5°	118.8	121.0	175.9	257.3	365.0	270.5	384.9	804.8	1011.6	646.6	270.5
85°	68.2	66.0	129.8	149.5	162.8	112.1	116.5	241.9	316.6	272.6	154.0
87.5°	8.8	13.2	50.5	39.6	22.0	24.2	24.2	41.8	61.6	66.0	33.0
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°	3815.5	3815.5	3815.5	3815.5	3815.5	3815.5	3815.5	3815.5	3815.5	3815.5	3815.5
2.5°	3819.9	3817.6	3811.1	3804.5	3789.1	3780.3	3784.7	3780.3	3778.0	3780.3	3789.1
5°	3848.5	3841.8	3824.3	3802.2	3771.5	3734.1	3709.9	3674.7	3641.7	3621.9	3626.3
7.5°	3925.4	3918.8	3894.6	3833.1	3734.1	3578.0	3435.0	3309.6	3215.1	3160.1	3162.3
10°	4048.5	4037.6	4000.2	3863.8	3604.3	3263.5	2979.8	2744.5	2590.6	2518.0	2511.4
12.5°	4193.7	4180.5	4114.6	3835.2	3358.0	2825.8	2434.4	2172.7	2029.8	1966.1	1959.4
15°	4365.3	4347.6	4217.9	3698.9	2999.6	2342.0	1983.6	1787.9	1695.6	1638.4	1640.5
17.5°	4578.6	4547.7	4294.9	3494.4	2610.4	1972.6	1706.5	1559.1	1477.8	1422.8	1418.4
20°	4855.6	4805.1	4356.5	3250.3	2251.9	1739.5	1519.6	1396.5	1334.9	1286.5	1277.7
22.5°	5242.7	5170.1	4431.2	2986.4	1999.0	1579.0	1381.1	1290.9	1240.2	1185.3	1176.5
25°	5722.1	5636.4	4523.5	2742.3	1825.2	1440.4	1279.9	1205.1	1145.7	1082.0	1075.3
27.5°	6392.8	6238.9	4633.5	2542.2	1675.8	1321.6	1187.6	1103.9	1035.8	983.0	972.0
30°	7140.6	6887.6	4730.3	2421.3	1539.3	1211.8	1066.6	983.0	919.2	881.8	875.2
32.5°	7848.6	7505.6	4794.0	2368.5	1416.2	1086.4	934.6	844.5	796.1	785.0	791.7
35°	8517.1	8064.2	4787.5	2317.8	1306.3	961.0	804.8	712.5	675.2	681.7	681.7
37.5°	9286.8	8660.1	4741.2	2238.7	1216.1	846.6	692.7	611.3	578.4	580.6	589.4
40°	10181.8	9348.4	4712.7	2089.2	1117.1	741.1	600.3	534.4	510.1	501.4	499.2
42.5°	11136.3	10014.8	4717.0	1919.8	994.0	646.6	536.6	481.6	459.6	453.0	450.8
45°	12095.1	10650.3	4723.7	1743.9	864.3	574.0	490.4	444.2	431.0	422.2	422.2
47.5°	12996.8	11191.3	4600.5	1554.8	736.7	519.0	453.0	422.2	411.2	400.3	400.3
50°	13836.8	11552.0	4303.7	1334.9	635.5	475.0	424.5	402.4	391.4	380.5	380.5
52.5°	14489.9	11609.2	3813.3	1108.3	565.2	442.0	406.8	387.0	373.8	362.8	360.7
55°	14780.2	11250.6	3116.1	897.3	510.1	413.4	389.2	369.4	354.0	343.1	340.8
57.5°	14705.5	10496.3	2430.0	721.3	457.5	384.9	367.3	354.0	336.5	318.9	316.6
60°	14338.2	9487.0	1831.9	600.3	409.1	354.0	343.1	332.1	307.9	281.5	277.1
62.5°	13702.6	8218.0	1306.3	497.0	356.3	318.9	314.5	305.7	270.5	222.1	217.7
65°	12730.6	6676.5	879.7	413.4	305.7	279.3	281.5	266.1	219.9	164.9	160.5
67.5°	11310.1	4882.1	562.9	338.7	255.1	233.1	235.3	226.5	187.0	140.7	134.2
70°	9500.1	3232.6	367.3	257.3	204.5	180.3	193.5	195.7	158.4	114.4	110.0
72.5°	6964.6	1908.9	257.3	191.4	149.5	125.4	158.4	162.8	127.5	85.8	81.4
75°	3969.4	906.0	193.5	138.6	92.4	87.9	123.1	123.1	87.9	57.2	52.8
77.5°	1667.0	378.2	136.3	90.2	52.8	50.5	83.5	77.0	44.0	26.3	26.3
80°	481.6	169.3	72.6	44.0	22.0	19.8	33.0	24.2	11.0	4.4	4.4
82.5°	189.1	74.7	28.6	17.6	8.8	8.8	4.4	0.0	0.0	0.0	0.0
85°	112.1	30.7	13.2	6.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	28.6	6.6	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)