

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: P970898

Luminaire Tested: **NAV-SB6C-735-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970898
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-735-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38754.2 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

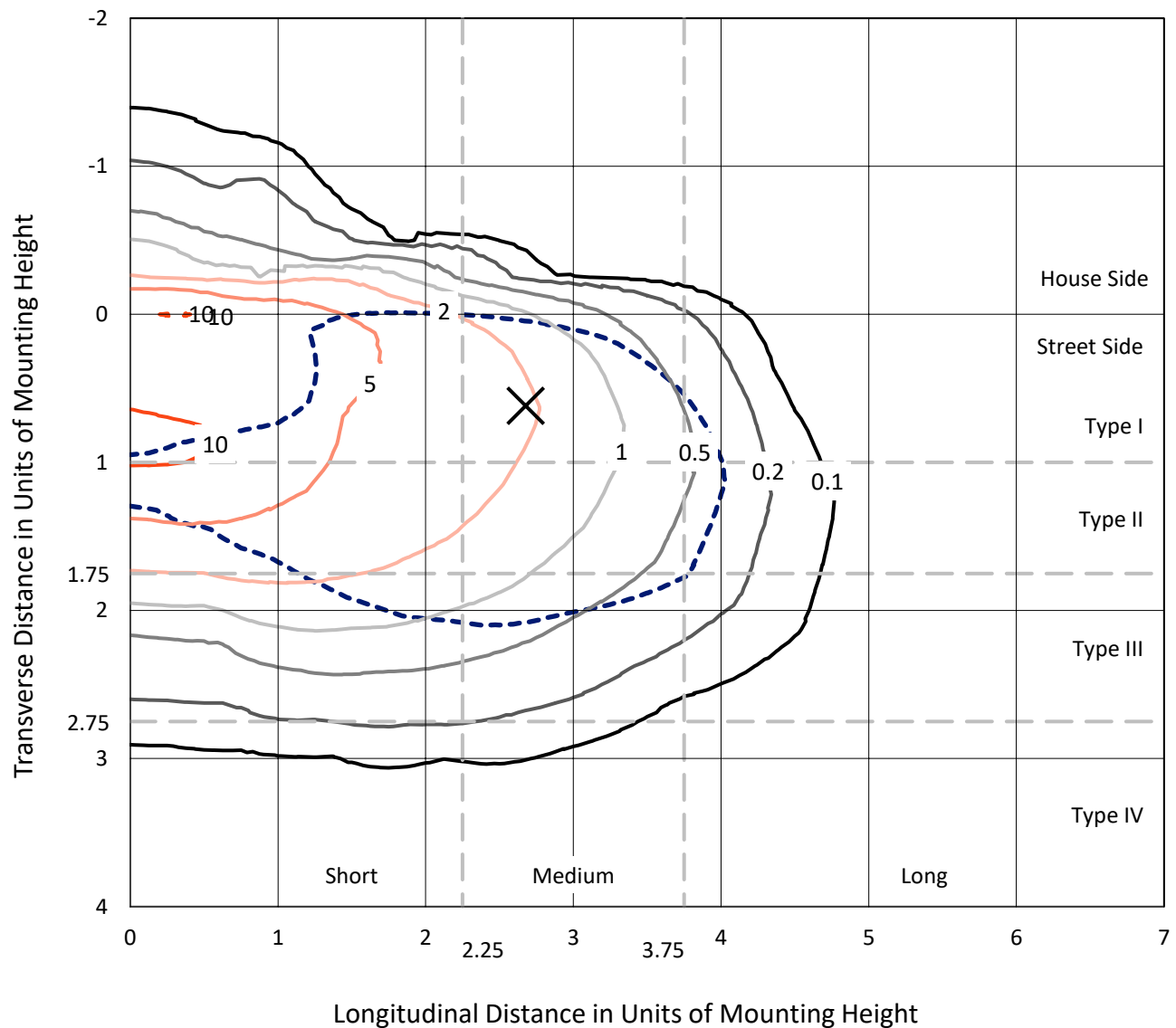
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

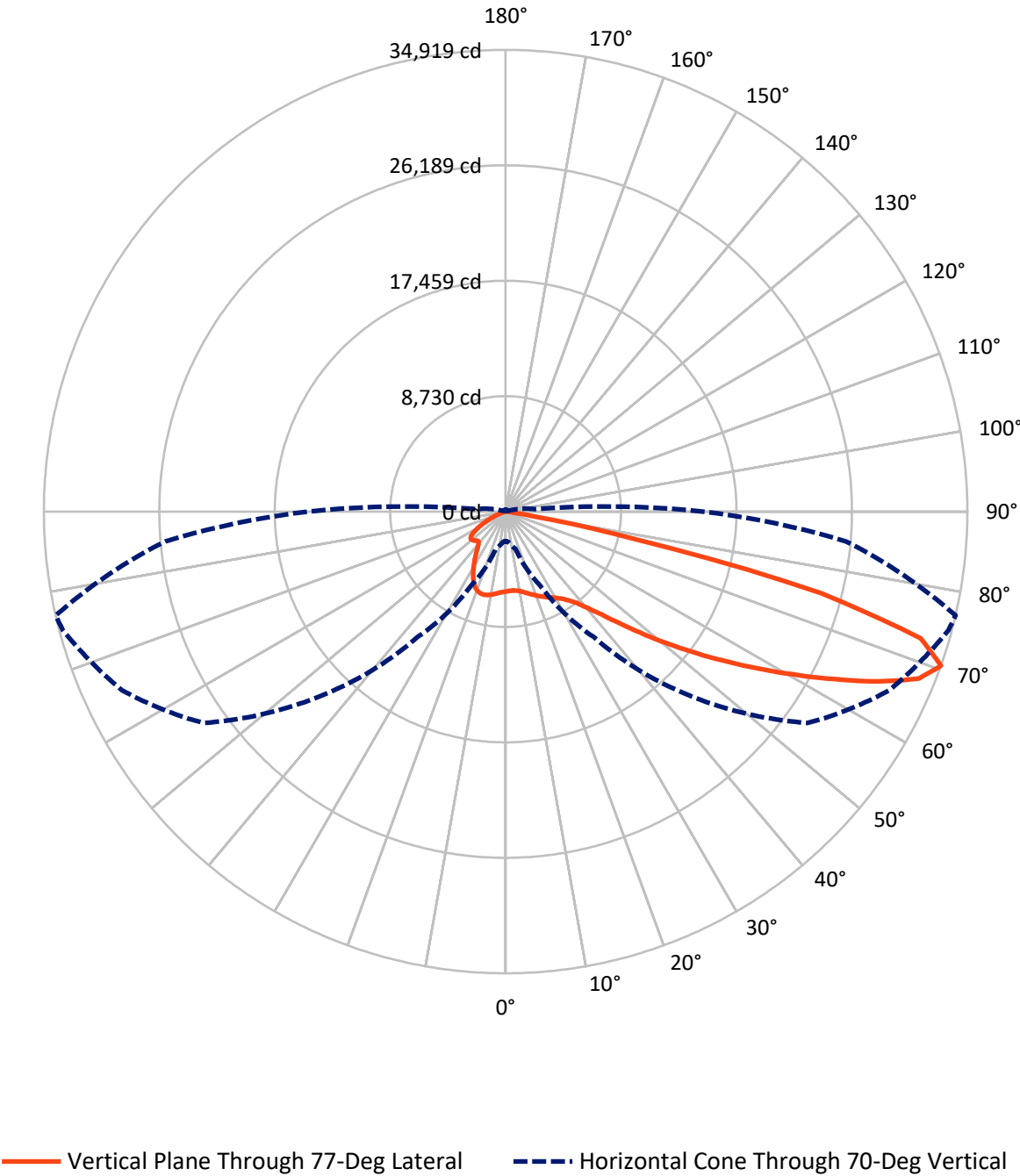
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4085.2	0.0	4085.2
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	34669.0	0.0	34669.0
	% Fixture	89.5	0.0	89.5
Total	Lumens	38754.2	0.0	38754.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	521.0	1.3
10°-20°	1236.7	3.2
20°-30°	1912.9	4.9
30°-40°	3471.1	9.0
40°-50°	6552.1	16.9
50°-60°	9467.2	24.4
60°-70°	10077.6	26.0
70°-80°	5340.4	13.8
80°-90°	175.4	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°	38754.2	100.0
0°-180°	38754.2	100.0

Coefficient of Utilization



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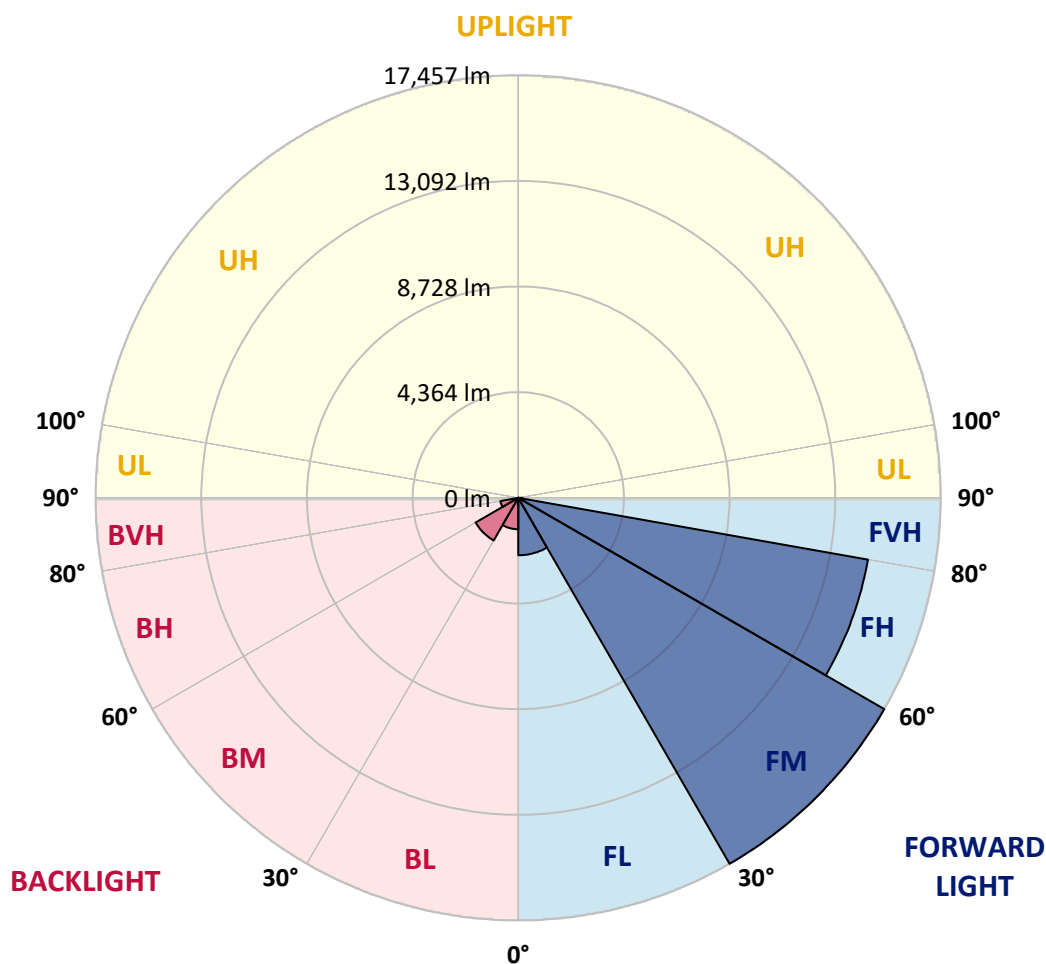
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2372.7	6.1			
FM	(30°-60°)	17456.6	45.0			
FH	(60°-80°)	14669.0	37.9			G5
FVH	(80°-90°)	170.6	0.4			G2/225
BL	(0°-30°)	1298.0	3.3	B3/2500		
BM	(30°-60°)	2033.7	5.2	B2/2500		
BH	(60°-80°)	748.9	1.9	B2/1000		G2/1000
BVH	(80°-90°)	4.7	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-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	6044.9	6044.9	6044.9	6044.9	6044.9	6044.9	6044.9	6044.9	6044.9	6044.9	6044.9
2.5°	5675.4	5726.8	5719.5	5753.7	5765.9	5814.9	5863.8	5929.9	6003.3	6000.9	6049.9
5°	5354.8	5406.2	5418.5	5464.9	5523.6	5599.6	5699.9	5832.0	5969.1	5991.1	6089.0
7.5°	4975.5	5029.3	5061.1	5154.1	5261.8	5418.5	5582.5	5775.8	6003.3	6035.2	6223.6
10°	4596.1	4645.1	4686.7	4818.8	4990.1	5222.7	5489.4	5768.4	6074.4	6120.8	6387.6
12.5°	4361.2	4407.7	4454.1	4569.2	4782.1	5066.1	5428.2	5802.6	6191.8	6257.8	6610.3
15°	4277.9	4319.6	4356.2	4459.1	4657.3	4980.4	5416.0	5873.7	6341.1	6429.2	6879.5
17.5°	4290.2	4312.3	4336.7	4415.0	4608.4	4941.2	5438.0	5996.0	6517.3	6595.6	7148.8
20°	4361.2	4373.4	4375.8	4429.7	4601.0	4936.3	5482.1	6113.5	6683.7	6789.0	7415.5
22.5°	4451.8	4456.6	4451.8	4488.5	4647.6	4973.0	5540.8	6255.5	6869.8	6967.6	7684.7
25°	4875.1	4782.1	4664.7	4593.6	4725.9	5044.0	5628.9	6446.3	7072.8	7168.3	7946.5
27.5°	6189.4	5922.6	5501.7	5029.3	4887.4	5146.7	5751.3	6639.6	7278.4	7364.1	8228.0
30°	8323.4	7973.5	7258.8	6194.3	5406.2	5362.2	5910.4	6833.0	7496.2	7589.2	8529.0
32.5°	10462.4	10376.8	9552.0	8078.7	6573.6	5841.8	6174.7	7094.8	7785.0	7858.5	8935.2
35°	12625.8	12452.1	11776.6	10320.5	8372.4	6818.3	6615.1	7437.5	8164.3	8247.6	9527.6
37.5°	14282.8	14177.5	13759.0	12559.8	10506.5	8325.9	7368.9	7968.6	8715.1	8808.0	10286.2
40°	15746.3	15697.4	15555.4	14764.9	12892.7	10298.5	8541.2	8790.9	9478.6	9588.8	11216.2
42.5°	16896.5	17011.5	17092.3	16872.0	15352.2	12550.0	10117.4	9946.1	10543.2	10655.8	12400.8
45°	18073.7	18112.9	18438.3	18756.5	17794.7	14904.4	11894.1	11299.4	11867.2	12006.7	13820.2
47.5°	18830.0	18986.6	19559.3	20119.7	19848.0	17239.2	13803.1	12897.6	13401.7	13663.6	15411.0
50°	18886.2	19182.4	19970.4	20946.9	21343.4	19461.4	15878.4	14718.4	15254.4	15543.1	17109.4
52.5°	17948.9	18409.0	19630.2	21059.4	22151.0	21343.4	18024.7	16539.2	17226.9	17603.8	18871.5
55°	13761.4	14363.5	18350.3	20447.6	22182.8	22770.2	20114.8	18435.9	19424.7	19850.5	20775.5
57.5°	11989.5	12293.0	14427.2	19385.5	21593.0	23345.3	22004.2	20242.0	21815.7	22344.3	22574.4
60°	9975.4	10374.3	12099.7	17647.8	20792.7	23401.6	23673.2	22571.9	24407.4	25002.1	24223.9
62.5°	6779.1	7212.3	8928.0	14662.1	19698.8	23374.6	25041.3	24970.3	27288.0	27926.7	25621.3
65°	4199.6	4471.4	5602.0	11972.4	18169.1	23404.0	26473.0	27882.7	30327.6	30976.1	26703.1
67.5°	3318.6	3443.4	4033.3	9192.3	15533.4	22743.2	27902.2	30621.3	33188.6	33702.5	27033.5
70°	2229.6	2305.4	2934.4	6162.4	11556.4	19693.8	27875.4	31996.7	34661.8	34918.8	25829.4
72.5°	1174.8	1233.5	1715.5	2853.6	6979.8	13998.8	23497.0	30352.1	33195.9	32809.2	22077.6
75°	587.3	685.2	1155.2	1448.8	2980.9	7807.0	14591.1	23930.2	26128.0	24630.1	14165.3
77.5°	445.5	538.4	954.5	954.5	1037.7	2628.4	6179.5	13051.7	12038.5	10024.4	4158.0
80°	283.9	367.1	834.6	722.0	433.2	668.1	1610.4	3656.4	2557.5	1945.7	756.2
82.5°	166.5	239.8	695.1	477.2	242.3	247.2	455.2	778.3	663.3	516.4	232.5
85°	66.1	156.6	477.2	188.4	95.4	61.2	137.0	166.5	137.0	102.8	58.7
87.5°	0.0	36.7	83.2	0.0	7.4	4.9	9.8	12.2	12.2	9.8	19.6
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°	6044.9	6044.9	6044.9	6044.9	6044.9	6044.9	6044.9	6044.9	6044.9	6044.9	6044.9
2.5°	6071.9	6076.8	6091.5	6093.9	6059.6	6015.6	5998.5	5991.1	5961.7	5959.3	5964.2
5°	6145.3	6167.3	6145.3	6081.6	5929.9	5717.0	5555.5	5423.4	5303.5	5266.7	5244.7
7.5°	6292.2	6314.2	6248.1	5998.5	5616.7	5193.3	4811.5	4542.3	4300.0	4209.5	4172.8
10°	6502.6	6532.0	6323.9	5819.8	5144.4	4464.0	3817.9	3362.6	3007.8	2863.4	2802.2
12.5°	6766.9	6779.1	6365.6	5548.1	4530.1	3558.5	2643.2	2156.1	1840.4	1722.9	1686.2
15°	7058.2	7041.0	6370.5	5178.6	3693.1	2515.9	1725.4	1417.1	1289.8	1250.6	1250.6
17.5°	7364.1	7293.1	6272.6	4645.1	2775.3	1720.5	1279.9	1206.5	1184.5	1174.8	1172.3
20°	7665.2	7506.1	6093.9	3947.6	1992.2	1284.8	1162.5	1140.4	1128.2	1123.3	1118.5
22.5°	7939.2	7667.5	5788.0	3137.5	1446.4	1135.6	1098.9	1079.3	1057.3	1047.4	1045.0
25°	8205.9	7760.6	5357.3	2381.3	1157.6	1062.1	1032.8	996.1	966.7	954.5	949.6
27.5°	8465.4	7819.3	4818.8	1762.1	1032.8	993.6	939.8	888.4	866.3	861.5	856.6
30°	8741.9	7838.9	4207.0	1314.3	956.9	907.9	829.6	770.9	758.7	761.2	761.2
32.5°	9079.7	7868.2	3590.3	1076.9	893.3	805.1	712.2	651.0	641.2	651.0	648.5
35°	9483.5	7926.9	2995.6	991.2	837.0	700.0	599.6	548.2	538.4	545.7	543.4
37.5°	10031.7	8022.5	2440.0	974.1	790.5	611.8	504.2	462.6	462.6	465.0	462.6
40°	10761.0	8277.0	1943.2	961.9	766.0	545.7	425.9	408.7	416.0	421.0	421.0
42.5°	11649.4	8817.8	1607.9	947.1	739.1	516.4	386.7	379.4	391.5	396.5	396.5
45°	12645.4	9503.1	1490.5	922.6	714.6	536.0	369.5	359.8	374.4	376.9	379.4
47.5°	13675.8	10173.6	1475.8	895.7	690.1	565.3	364.7	342.7	359.8	362.2	364.7
50°	14718.4	10611.7	1490.5	854.1	651.0	565.3	367.1	325.5	340.2	347.5	349.9
52.5°	15768.3	10812.4	1480.6	763.6	582.5	531.1	367.1	310.8	325.5	330.4	330.4
55°	16786.4	10773.3	1331.4	628.9	494.4	469.9	357.3	298.6	308.3	310.8	310.8
57.5°	17591.6	10227.4	1054.8	489.4	401.4	391.5	325.5	283.9	291.2	288.7	288.7
60°	18012.5	9028.3	753.8	376.9	315.7	308.3	286.4	264.3	269.2	257.0	254.5
62.5°	18017.4	7442.4	504.2	298.6	252.0	244.8	244.8	237.4	232.5	208.1	200.7
65°	17633.2	5682.7	335.3	237.4	203.2	190.9	205.6	203.2	186.0	151.7	146.9
67.5°	16761.9	3724.8	254.5	186.0	156.6	149.2	164.0	171.3	159.1	127.3	124.8
70°	14970.4	2168.4	210.4	144.4	117.5	110.1	132.1	146.9	132.1	102.8	97.9
72.5°	12435.0	1169.8	171.3	107.7	80.8	73.4	105.3	119.9	105.3	75.8	73.4
75°	8068.9	626.5	132.1	70.9	41.6	46.5	78.3	88.1	73.4	49.0	44.1
77.5°	2709.2	276.5	83.2	34.2	19.6	19.6	46.5	53.8	34.2	17.1	14.7
80°	604.5	115.0	34.2	14.7	7.4	7.4	9.8	9.8	4.9	0.0	0.0
82.5°	198.2	46.5	14.7	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	75.8	17.1	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	29.4	2.5	0.0	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)