

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: P971001

Luminaire Tested: **NAV-SB6C-827-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971001
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-827-U-AFL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

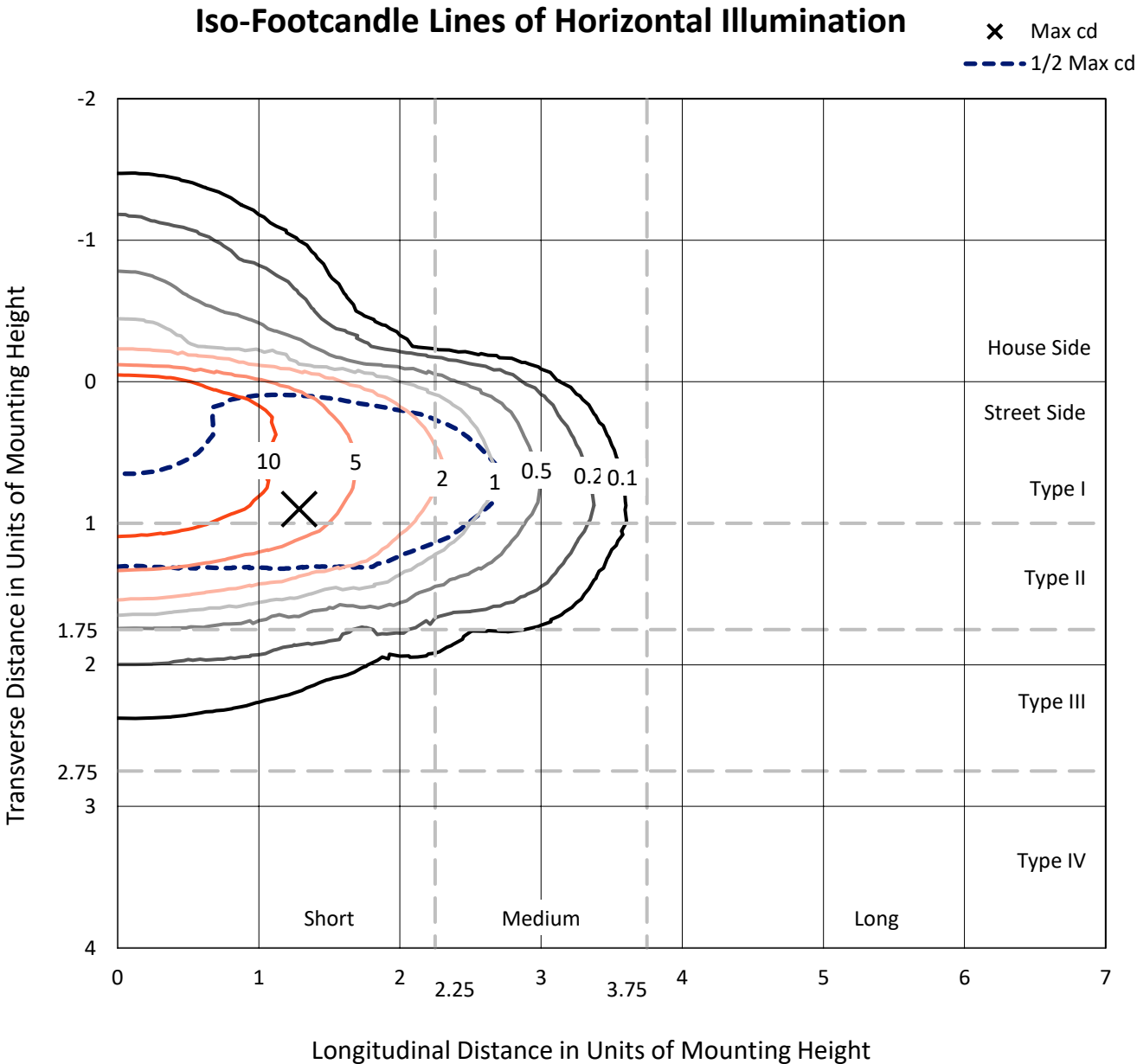
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34512.8 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

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



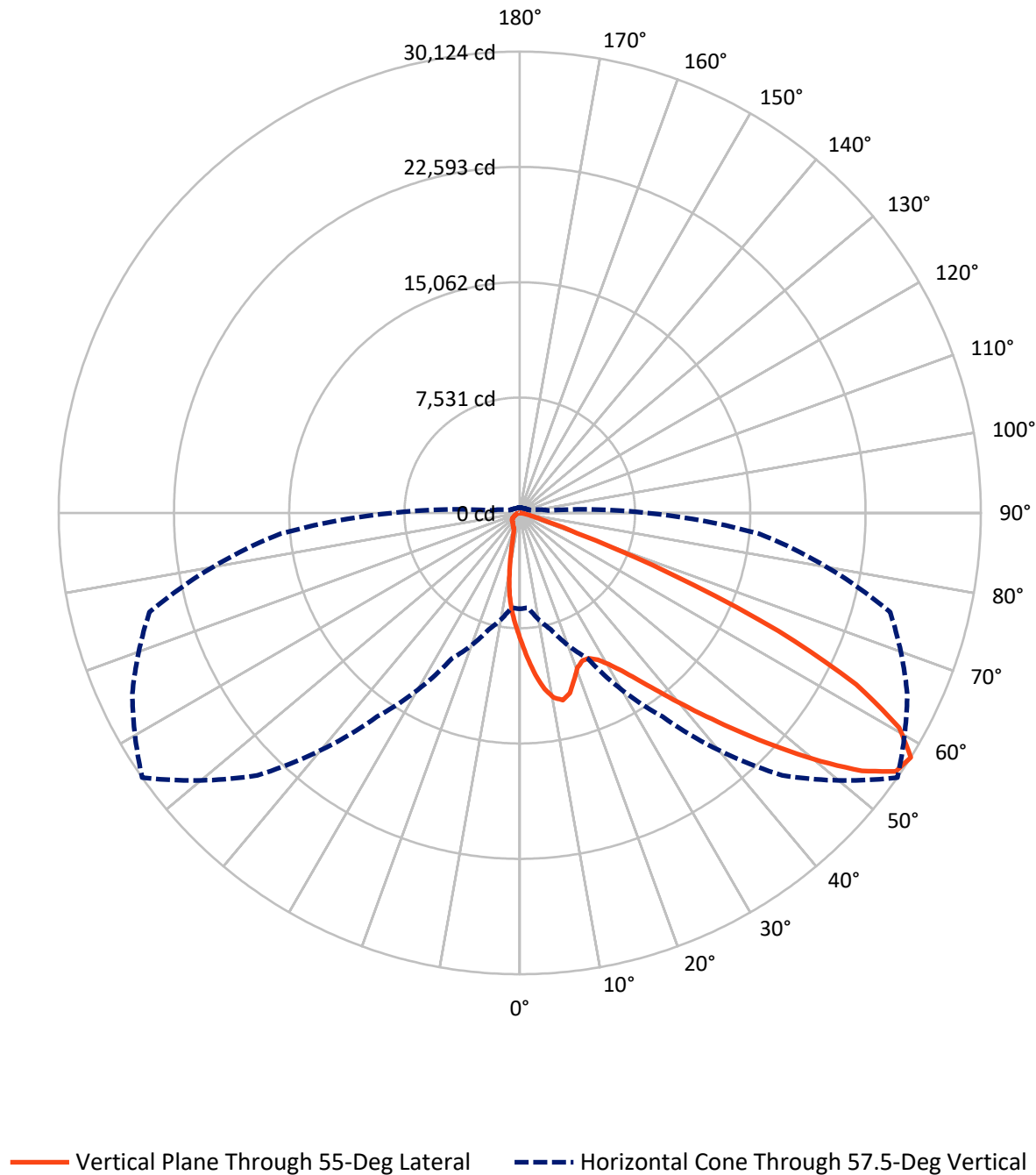
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Based on 25 foot mounting height. Maximum calculated value = 19 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2695.3	0.0	2695.3
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	31817.5	0.0	31817.5
	% Fixture	92.2	0.0	92.2
Total	Lumens	34512.8	0.0	34512.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	773.8	2.2
10°-20°	1869.2	5.4
20°-30°	2990.7	8.7
30°-40°	5061.9	14.7
40°-50°	8310.5	24.1
50°-60°	9133.9	26.5
60°-70°	5239.2	15.2
70°-80°	1070.5	3.1
80°-90°	63.2	0.2
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°	34512.8	100.0
0°-180°	34512.8	100.0

Coefficient of Utilization



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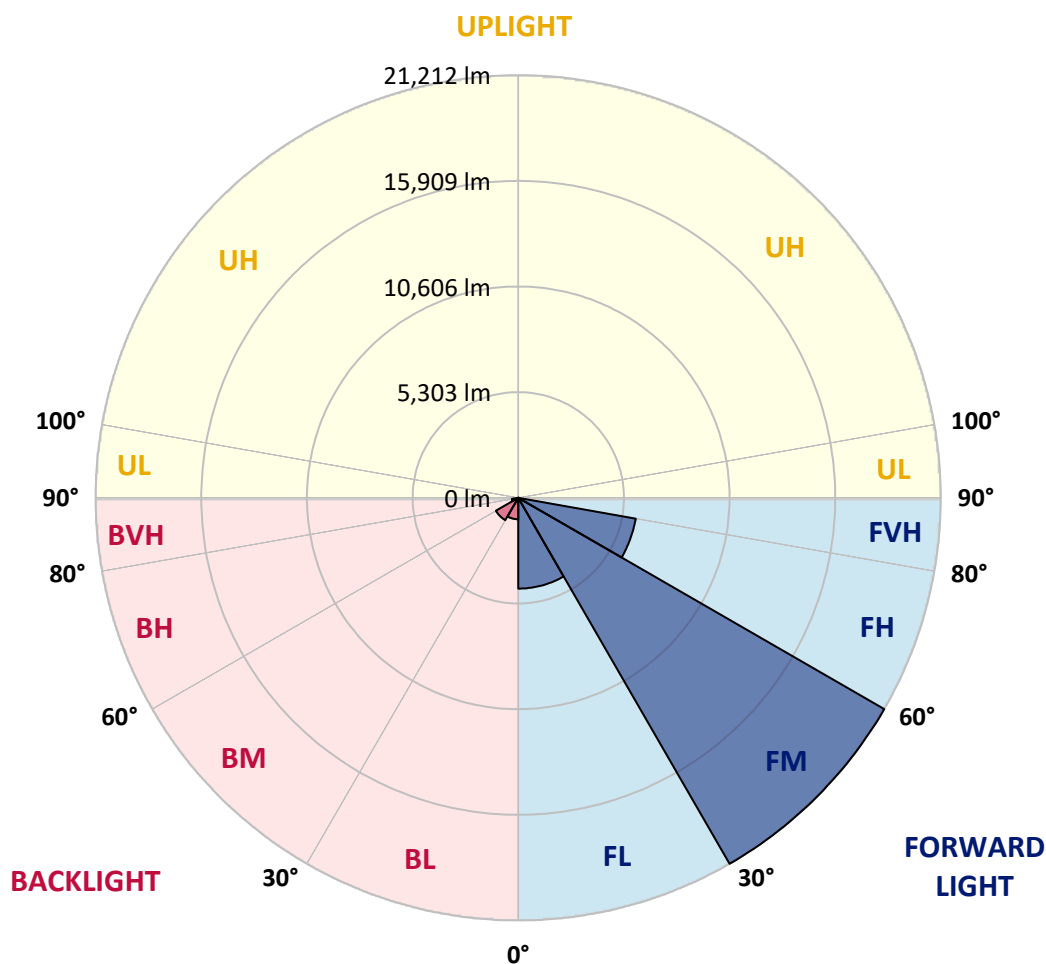
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4557.6	13.2			
FM	(30°-60°)	21211.8	61.5			
FH	(60°-80°)	5989.2	17.4			G3/7500
FVH	(80°-90°)	58.9	0.2			G1/100
BL	(0°-30°)	1076.0	3.1	B3/2500		
BM	(30°-60°)	1294.5	3.8	B2/2500		
BH	(60°-80°)	320.5	0.9	B1/500		G1/500
BVH	(80°-90°)	4.3	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8316.7	8316.7	8316.7	8316.7	8316.7	8316.7	8316.7	8316.7	8316.7	8316.7	8316.7
2.5°	10319.3	10189.5	10170.4	10144.8	9897.9	9712.8	9444.7	9151.0	8821.0	8484.8	8335.9
5°	11921.8	11819.6	11800.5	11681.3	11400.4	11085.4	10608.7	10006.5	9391.5	8667.9	8357.1
7.5°	12232.5	12213.3	12300.6	12296.3	12258.0	12009.0	11606.8	10889.6	9966.1	8893.4	8412.5
10°	10847.1	10896.1	11155.7	11383.3	11998.3	12356.0	12268.6	11677.0	10557.6	9151.0	8474.2
12.5°	9585.1	9527.7	9712.8	9970.3	10685.3	11749.4	12543.2	12334.6	11234.4	9442.5	8565.7
15°	8793.5	8770.0	8874.3	8993.5	9538.2	10610.9	12223.9	12868.8	11885.6	9787.3	8704.1
17.5°	8540.2	8521.0	8552.9	8582.7	8936.1	9766.0	11464.2	13196.6	12509.1	10181.0	8857.2
20°	8746.6	8721.1	8716.8	8693.4	8840.2	9406.3	10776.8	13219.9	13068.9	10538.5	8989.2
22.5°	9348.8	9319.1	9214.8	9121.2	9134.0	9455.3	10470.4	12985.8	13490.2	10872.6	9072.2
25°	10440.6	10391.7	10174.6	9859.6	9659.6	9795.8	10517.2	12677.3	13892.4	11134.4	9031.8
27.5°	11806.9	11743.0	11464.2	10996.0	10538.5	10372.5	10855.6	12464.4	14226.6	11334.4	8944.6
30°	13145.4	13062.5	12787.9	12424.0	11755.8	11232.3	11466.4	12558.1	14624.5	11542.9	8829.7
32.5°	14590.5	14511.7	14147.8	13696.7	13143.4	12438.9	12302.7	13015.7	15111.9	11834.5	8748.8
35°	16418.6	16295.0	15777.9	15162.9	14575.6	13862.6	13434.9	13805.2	15760.9	12279.3	8793.5
37.5°	18499.8	18333.9	17776.3	16927.2	16161.0	15363.0	14813.9	14890.5	16712.2	12875.2	8931.7
40°	20462.0	20310.9	19795.8	18995.7	18033.7	17065.4	16480.3	16310.0	18025.2	13600.8	9174.4
42.5°	21638.8	21502.7	21285.6	20947.2	20136.3	19148.9	18410.4	18042.3	19578.8	14469.1	9470.2
45°	21704.8	21585.6	21877.2	22270.9	22111.3	21453.7	20553.5	19878.8	21138.7	15284.2	9776.7
47.5°	20649.2	20568.4	21453.7	22828.4	23513.7	23790.4	22960.4	21562.2	22426.2	15869.5	9902.2
50°	17772.0	17742.2	19563.9	22087.8	24047.8	25837.6	25499.2	23128.5	23424.3	16171.6	9783.0
52.5°	15409.7	15301.2	16363.2	19717.1	23271.1	26914.4	27980.7	24665.0	24122.4	16229.1	9504.2
55°	11687.7	11591.9	12924.1	15750.3	20766.3	26531.4	29795.9	26250.5	24622.4	16082.2	9004.1
57.5°	6269.5	6209.9	7893.2	10483.2	16233.3	24233.0	30123.6	27927.5	25043.8	15692.9	8303.9
60°	2440.9	2430.3	3060.2	5086.3	9866.0	19715.0	28470.1	28934.0	25307.7	15214.0	7718.8
62.5°	1476.9	1508.8	1611.0	2283.5	4358.4	12247.4	24658.6	27789.1	25484.4	14775.6	7235.7
65°	1221.6	1223.6	1236.5	1568.5	2087.7	5124.5	18563.7	24022.3	25048.0	13994.5	6550.4
67.5°	1047.0	1066.2	1115.1	1245.0	1472.6	2247.3	10687.5	18608.4	22394.3	12177.2	5482.1
70°	825.7	851.3	913.0	1023.7	1136.4	1406.7	3949.8	12381.5	17108.1	9178.7	4145.6
72.5°	695.9	693.7	725.7	832.1	902.3	989.5	1519.5	6937.7	9942.6	4381.8	2051.5
75°	538.4	559.6	600.1	695.9	738.4	717.2	823.6	2534.6	3562.5	1328.0	698.0
77.5°	421.4	438.4	474.6	568.3	610.8	508.6	474.6	906.6	1144.9	476.7	315.0
80°	189.4	204.3	323.5	419.2	497.9	351.2	257.5	463.9	508.6	217.1	159.6
82.5°	34.0	57.5	189.4	221.3	255.3	227.8	134.1	240.5	249.0	87.2	55.4
85°	2.2	4.3	66.0	80.9	102.2	74.5	40.4	95.7	83.0	29.8	21.3
87.5°	0.0	0.0	0.0	2.2	2.2	10.7	12.8	17.0	12.8	10.7	8.5
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8316.7	8316.7	8316.7	8316.7	8316.7	8316.7	8316.7	8316.7	8316.7	8316.7
2.5°	8182.7	7880.5	7586.7	7346.3	7205.9	6967.5	6810.0	6784.5	6718.5	6776.0
5°	8025.1	7484.7	6937.7	6448.3	6046.1	5526.8	5139.5	4975.6	4833.0	4882.0
7.5°	7950.7	7097.3	6246.0	5409.7	4550.0	3719.9	3102.8	2845.3	2649.5	2677.2
10°	7850.7	6695.1	5360.7	4083.9	2932.5	2113.2	1687.6	1530.1	1442.9	1445.0
12.5°	7774.0	6214.2	4332.9	2768.7	1785.6	1349.2	1217.3	1179.0	1153.4	1155.6
15°	7735.8	5648.1	3317.7	1845.1	1276.8	1142.8	1110.9	1093.9	1076.9	1074.7
17.5°	7671.9	5018.1	2428.2	1347.1	1117.2	1070.4	1042.7	1023.7	1002.3	998.0
20°	7576.2	4303.1	1774.9	1138.6	1047.0	1010.9	972.5	947.0	921.5	917.3
22.5°	7399.5	3547.6	1364.2	1053.4	996.0	955.5	908.7	878.9	853.4	849.1
25°	7071.8	2838.9	1149.2	1000.2	951.3	902.3	851.3	810.8	787.4	783.2
27.5°	6656.8	2230.3	1042.7	951.3	893.8	849.1	791.7	753.4	732.1	727.9
30°	6167.3	1717.4	981.0	896.0	825.7	787.4	736.4	704.4	691.7	691.7
32.5°	5639.5	1372.7	955.5	840.6	766.1	723.5	683.2	670.3	666.1	664.0
35°	5143.7	1191.8	942.8	795.9	712.9	672.5	655.5	657.6	666.1	666.1
37.5°	4703.2	1134.3	936.3	764.0	666.1	630.0	640.5	659.7	651.2	651.2
40°	4305.2	1140.7	932.1	740.6	627.8	606.5	627.8	612.9	591.6	589.5
42.5°	4000.9	1193.9	923.6	721.4	604.3	589.5	581.0	557.6	555.4	559.6
45°	3779.6	1240.7	921.5	712.9	578.8	551.1	540.6	517.1	559.6	570.3
47.5°	3517.8	1240.7	921.5	683.2	536.3	525.6	508.6	483.1	525.6	536.3
50°	3179.4	1161.9	885.3	649.0	502.2	495.9	466.1	434.1	425.6	432.0
52.5°	2751.7	1019.4	793.8	602.3	468.2	455.4	419.2	395.9	389.4	389.4
55°	2264.3	853.4	670.3	534.1	432.0	408.6	383.0	372.4	366.0	361.8
57.5°	1840.8	700.2	538.4	474.6	398.0	368.2	359.7	346.9	336.2	329.8
60°	1511.0	551.1	444.7	421.4	363.9	336.2	334.2	317.1	289.5	285.2
62.5°	1166.2	404.4	374.5	366.0	329.8	306.5	302.2	268.1	225.6	217.1
65°	823.6	315.0	302.2	321.3	293.7	272.4	261.8	210.6	165.9	159.6
67.5°	578.8	263.9	238.3	281.0	255.3	227.8	221.3	178.8	138.4	134.1
70°	412.9	214.9	195.8	240.5	204.3	200.1	187.3	148.9	112.7	108.5
72.5°	291.5	163.9	151.1	208.6	140.4	172.4	153.2	114.9	85.1	80.9
75°	214.9	117.1	106.4	121.3	102.2	129.8	108.5	76.6	53.2	51.0
77.5°	157.4	74.5	63.9	59.6	59.6	80.9	59.6	31.9	23.4	21.3
80°	110.7	34.0	29.8	25.5	23.4	19.2	8.5	4.3	2.2	2.2
82.5°	66.0	14.9	14.9	10.7	6.4	0.0	0.0	0.0	0.0	0.0
85°	14.9	6.4	6.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.2	2.2	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

(END OF REPORT)