

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: P968975

Luminaire Tested: **NAV-SB5C-835-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968975
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-SB5C-835-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 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: 28208 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 249.5
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



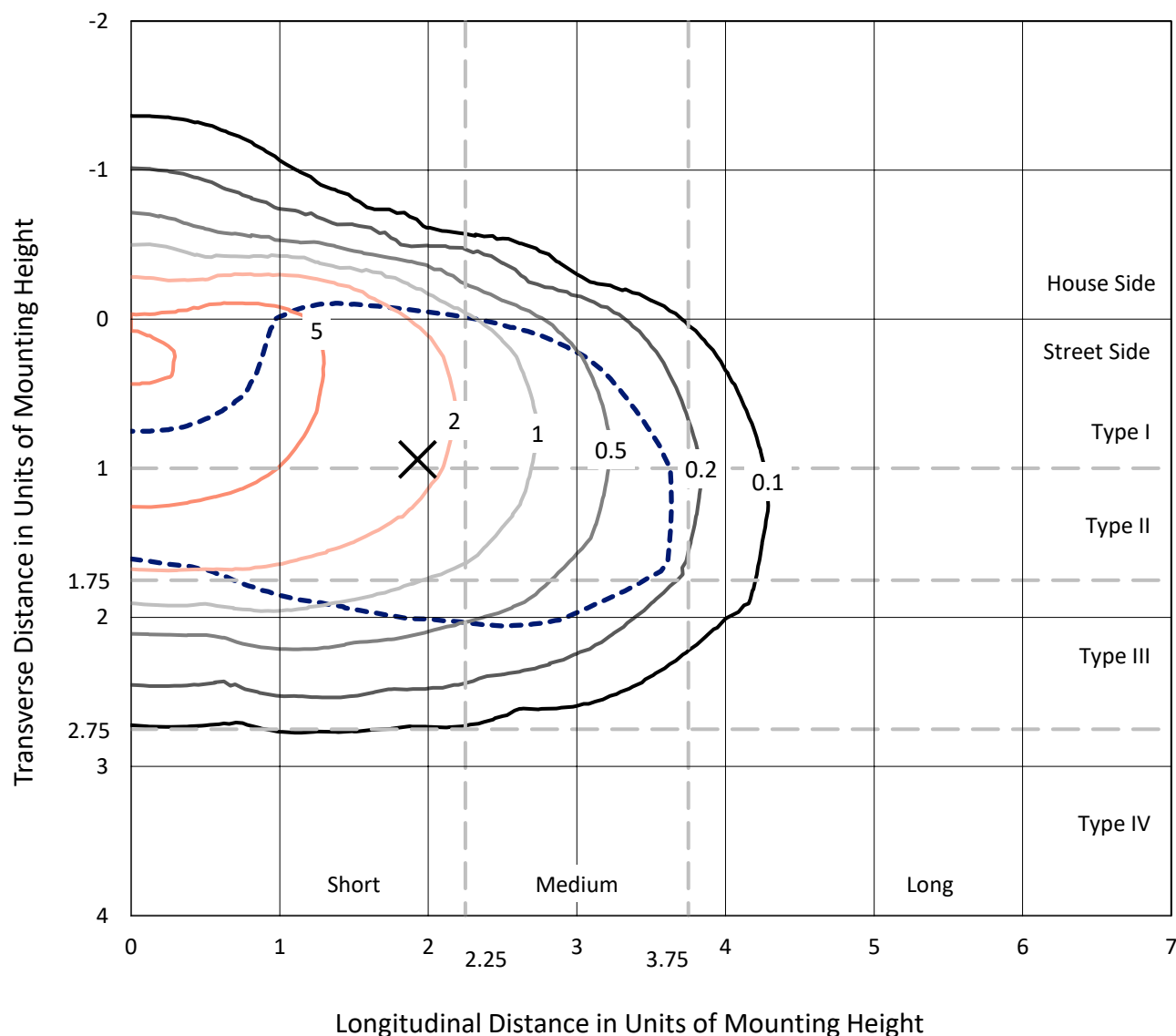
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

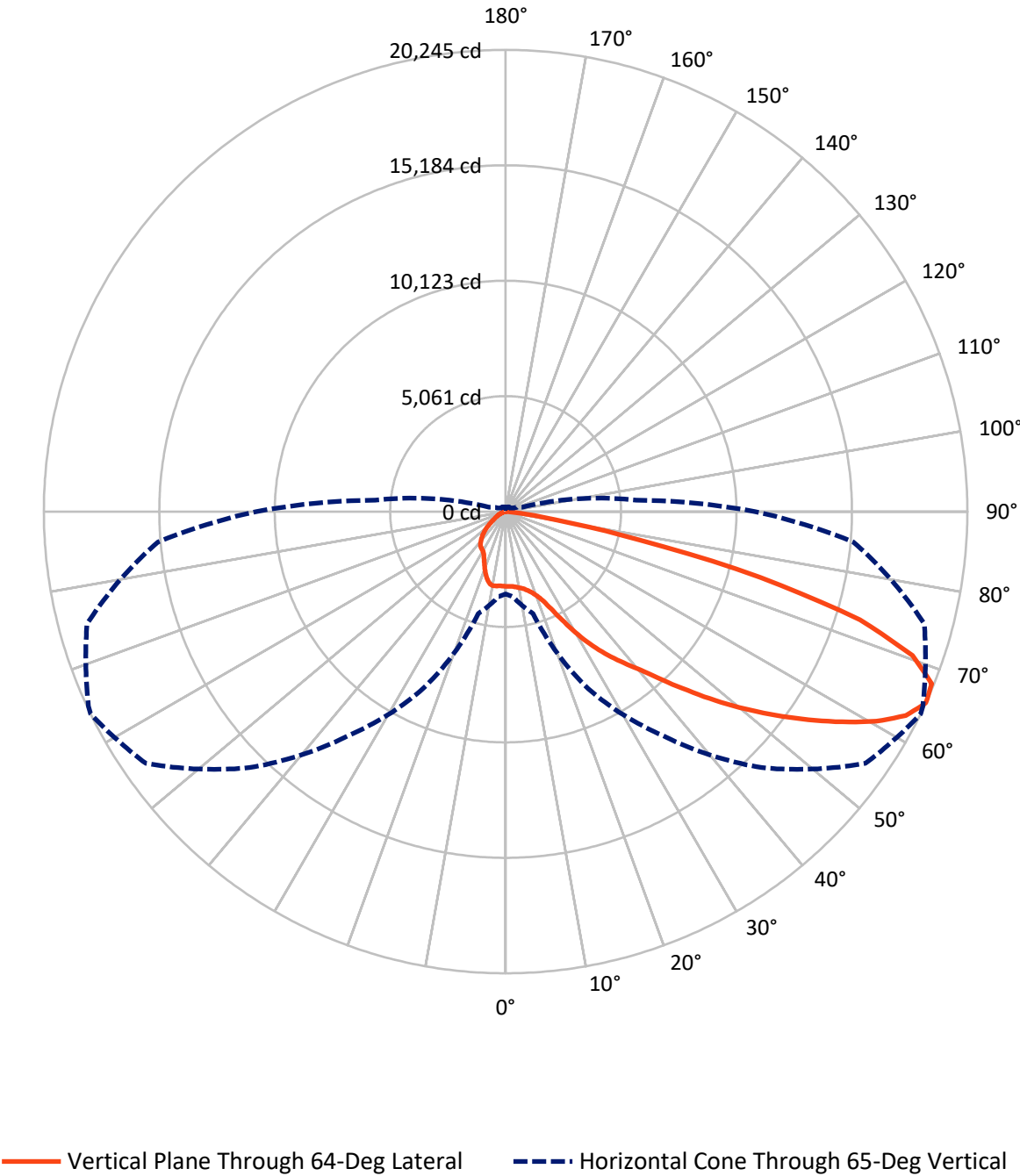


Based on 25 foot mounting height. Maximum calculated value = 8.3 fc

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	3772.3	0.0	3772.3
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	24435.7	0.0	24435.7
	% Fixture	86.6	0.0	86.6
Total	Lumens	28208.0	0.0	28208.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.7	1.1
10°-20°	821.0	2.9
20°-30°	1555.7	5.5
30°-40°	3148.0	11.2
40°-50°	5362.7	19.0
50°-60°	7292.8	25.9
60°-70°	6848.4	24.3
70°-80°	2743.8	9.7
80°-90°	132.9	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°	28208.0	100.0
0°-180°	28208.0	100.0

Coefficient of Utilization



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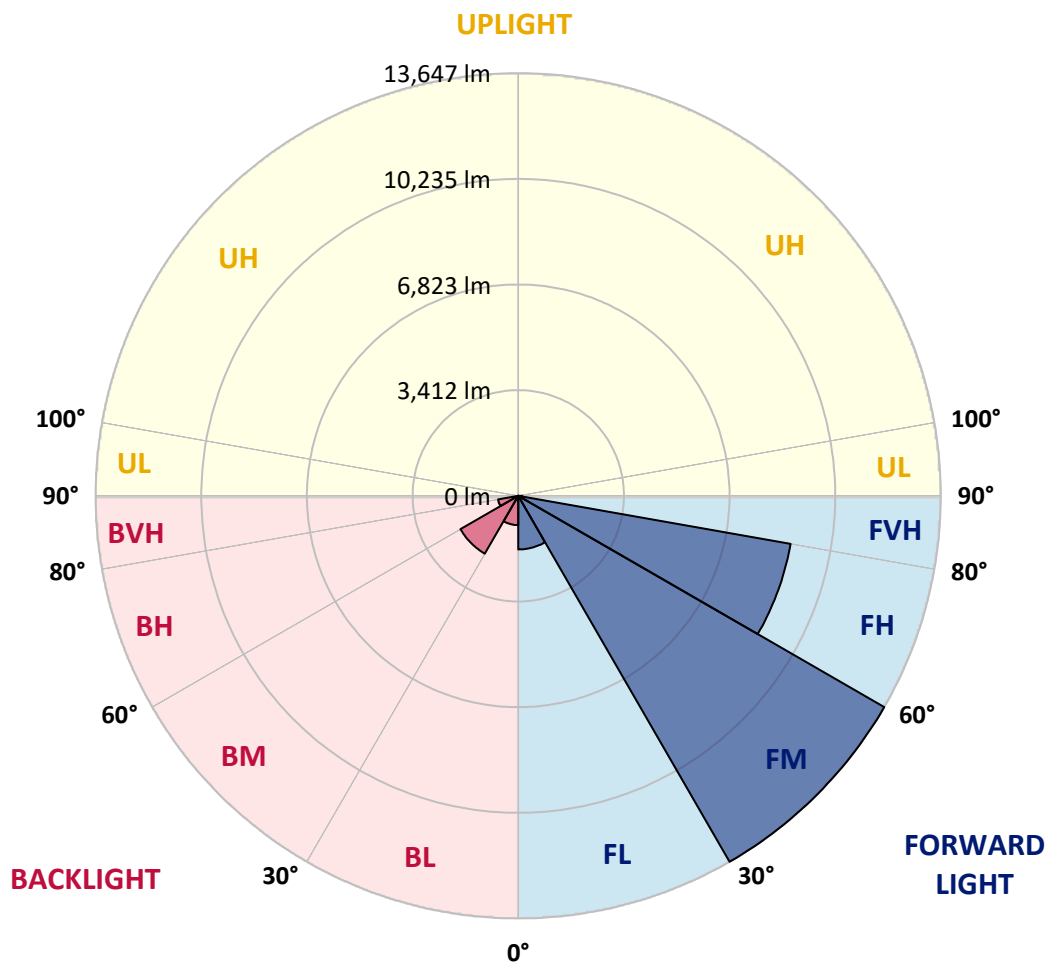
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1732.3	6.1			
FM	(30°-60°)	13647.0	48.4			
FH	(60°-80°)	8930.0	31.7			G4/12000
FVH	(80°-90°)	126.4	0.4			G2/225
BL	(0°-30°)	947.1	3.4	B2/1000		
BM	(30°-60°)	2156.6	7.6	B2/2500		
BH	(60°-80°)	662.1	2.3	B2/1000		G2/1000
BVH	(80°-90°)	6.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3280.9	3280.9	3280.9	3280.9	3280.9	3280.9	3280.9	3280.9	3280.9	3280.9	3280.9
2.5°	3269.5	3292.2	3286.6	3280.9	3279.0	3282.8	3284.7	3282.8	3282.8	3282.8	3284.7
5°	3207.1	3226.1	3226.1	3239.3	3258.2	3280.9	3297.9	3301.7	3305.4	3311.2	3309.2
7.5°	3088.0	3103.1	3114.5	3157.9	3205.3	3265.8	3316.8	3343.2	3347.0	3367.8	3375.4
10°	3006.7	3025.6	3044.6	3089.9	3157.9	3248.7	3335.8	3400.0	3409.5	3458.7	3481.3
12.5°	3002.9	3021.8	3046.4	3095.6	3174.9	3271.4	3377.4	3469.9	3487.0	3558.9	3606.2
15°	3042.6	3065.3	3088.0	3148.5	3233.6	3350.8	3464.3	3579.7	3596.7	3698.8	3749.9
17.5°	3123.9	3154.2	3171.2	3231.7	3322.4	3452.9	3602.4	3734.7	3749.9	3869.0	3933.2
20°	3284.7	3320.6	3326.2	3375.4	3464.3	3604.2	3782.0	3946.6	3965.4	4101.5	4173.4
22.5°	3617.4	3668.6	3623.2	3647.8	3727.2	3867.1	4060.0	4268.0	4294.4	4449.5	4513.8
25°	4203.7	4275.6	4158.3	4116.7	4150.7	4296.4	4538.4	4801.2	4831.5	4956.3	4988.5
27.5°	5355.3	5262.7	5084.9	4910.9	4808.8	4892.0	5164.4	5489.6	5527.4	5648.4	5610.6
30°	6620.4	6539.1	6298.9	5913.1	5671.1	5657.9	5909.3	6272.5	6315.9	6431.3	6315.9
32.5°	7887.4	7809.8	7548.8	7074.2	6654.4	6446.4	6620.4	7023.2	7045.8	7119.6	6949.4
35°	9133.6	9054.1	8793.2	8307.1	7790.9	7318.2	7284.2	7737.9	7745.5	7823.1	7569.6
37.5°	10387.2	10321.0	10043.1	9566.5	9057.9	8405.5	8089.7	8414.9	8424.4	8500.0	8237.2
40°	11281.7	11310.1	11119.1	10750.3	10313.6	9600.6	8993.6	9135.4	9078.7	9205.4	9048.4
42.5°	12049.5	12106.2	11939.8	11754.5	11501.0	10873.2	10113.1	10088.5	9997.7	10065.8	9903.1
45°	12713.2	12760.4	12611.1	12567.6	12561.9	12121.3	11336.5	11189.0	11062.3	11049.1	10854.3
47.5°	12957.1	13047.9	13112.2	13257.8	13541.5	13356.2	12601.7	12372.8	12231.0	12127.0	11818.8
50°	13049.8	13146.2	13365.6	13789.1	14460.5	14539.9	13861.0	13603.8	13429.9	13240.7	12787.0
52.5°	12924.9	13097.0	13392.0	14104.9	15078.8	15489.2	15069.3	14844.4	14645.8	14337.6	13664.4
55°	12189.4	12361.5	12964.7	14101.1	15387.1	16154.8	16211.5	16111.4	15888.2	15402.2	14373.5
57.5°	10638.8	10894.0	11849.0	13620.8	15381.4	16727.8	17331.0	17402.9	17153.3	16457.4	14931.3
60°	8490.6	8836.6	10001.5	12556.2	14906.8	17037.9	18312.4	18671.7	18406.9	17497.4	15383.3
62.5°	5924.5	6325.4	7427.9	10888.4	13821.3	16814.7	19029.1	19692.9	19492.4	18427.8	15557.2
65°	3613.7	3742.3	4631.1	8568.1	11975.7	15880.6	19250.3	20245.1	20178.9	18996.9	15300.1
67.5°	2407.2	2515.0	2770.3	5875.3	9296.1	14014.2	18720.9	20148.6	20167.5	18904.3	14358.4
70°	1450.4	1543.0	1709.5	3417.0	6024.7	11092.6	17081.4	18919.4	19029.1	17665.7	12573.3
72.5°	597.6	660.0	811.3	1548.8	3120.1	7040.2	13602.0	16243.7	16499.0	14853.8	9649.8
75°	338.5	370.6	476.5	777.2	1353.9	3280.9	8239.1	11531.4	11907.6	10237.9	5805.4
77.5°	225.0	240.2	308.2	503.0	762.1	1119.5	3521.1	6007.7	6726.3	5591.7	2513.1
80°	151.3	164.5	211.8	336.6	495.5	480.3	1121.4	2225.7	2738.2	1921.3	612.6
82.5°	102.1	104.0	151.3	221.3	313.9	232.6	331.0	692.1	869.8	556.0	232.6
85°	58.6	56.7	111.5	128.6	139.9	96.5	100.2	208.0	272.3	234.5	132.3
87.5°	7.6	11.4	43.5	34.0	18.9	20.8	20.8	36.0	53.0	56.7	28.4
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°	3280.9	3280.9	3280.9	3280.9	3280.9	3280.9	3280.9	3280.9	3280.9	3280.9	3280.9
2.5°	3284.7	3282.8	3277.1	3271.4	3258.2	3250.6	3254.4	3250.6	3248.7	3250.6	3258.2
5°	3309.2	3303.6	3288.4	3269.5	3243.1	3210.9	3190.1	3159.9	3131.5	3114.5	3118.3
7.5°	3375.4	3369.8	3349.0	3296.0	3210.9	3076.6	2953.7	2845.9	2764.6	2717.4	2719.2
10°	3481.3	3471.9	3439.7	3322.4	3099.4	2806.2	2562.3	2360.0	2227.6	2165.2	2159.5
12.5°	3606.2	3594.8	3538.1	3297.9	2887.5	2430.0	2093.4	1868.3	1745.4	1690.5	1684.9
15°	3753.7	3738.5	3627.0	3180.7	2579.3	2013.9	1705.7	1537.4	1458.0	1408.8	1410.7
17.5°	3937.0	3910.6	3693.1	3004.8	2244.6	1696.3	1467.4	1340.7	1270.8	1223.4	1219.6
20°	4175.3	4131.9	3746.1	2794.9	1936.4	1495.8	1306.7	1200.8	1147.8	1106.3	1098.7
22.5°	4508.2	4445.7	3810.3	2567.9	1718.9	1357.7	1187.6	1110.0	1066.5	1019.3	1011.7
25°	4920.4	4846.6	3889.8	2358.1	1569.5	1238.6	1100.5	1036.3	985.2	930.4	924.7
27.5°	5497.2	5364.7	3984.4	2186.0	1440.9	1136.5	1021.1	949.3	890.6	845.3	835.8
30°	6140.1	5922.7	4067.5	2082.0	1323.7	1041.9	917.2	845.3	790.5	758.3	752.7
32.5°	6749.0	6454.0	4122.3	2036.6	1217.8	934.2	803.7	726.1	684.5	675.1	680.8
35°	7323.8	6934.3	4116.7	1993.1	1123.3	826.4	692.1	612.6	580.6	586.2	586.2
37.5°	7985.7	7446.7	4077.0	1925.1	1045.7	728.1	595.6	525.7	497.3	499.2	506.8
40°	8755.3	8038.7	4052.4	1796.4	960.6	637.2	516.3	459.5	438.7	431.1	429.3
42.5°	9576.1	8611.6	4056.2	1650.9	854.7	556.0	461.5	414.1	395.2	389.5	387.7
45°	10400.5	9158.1	4061.9	1499.6	743.1	493.5	421.7	382.0	370.6	363.1	363.1
47.5°	11175.8	9623.3	3956.0	1336.9	633.4	446.3	389.5	363.1	353.6	344.2	344.2
50°	11898.2	9933.4	3700.7	1147.8	546.5	408.5	365.0	346.0	336.6	327.2	327.2
52.5°	12459.8	9982.6	3279.0	953.0	486.0	380.1	349.8	332.8	321.4	312.0	310.2
55°	12709.4	9674.4	2679.6	771.5	438.7	355.5	334.7	317.6	304.4	295.0	293.2
57.5°	12645.1	9025.7	2089.6	620.2	393.3	331.0	315.8	304.4	289.4	274.2	272.3
60°	12329.3	8157.8	1575.2	516.3	351.7	304.4	295.0	285.6	264.8	242.0	238.3
62.5°	11782.8	7066.7	1123.3	427.3	306.4	274.2	270.4	262.8	232.6	191.0	187.2
65°	10947.0	5741.0	756.4	355.5	262.8	240.2	242.0	228.8	189.1	141.9	138.1
67.5°	9725.4	4198.0	484.1	291.2	219.4	200.5	202.3	194.7	160.7	121.1	115.3
70°	8169.1	2779.8	315.8	221.3	175.9	155.1	166.4	168.3	136.1	98.3	94.5
72.5°	5988.8	1641.4	221.3	164.5	128.6	107.8	136.1	139.9	109.7	73.8	70.0
75°	3413.2	779.1	166.4	119.1	79.4	75.6	105.9	105.9	75.6	49.2	45.4
77.5°	1433.4	325.2	117.3	77.5	45.4	43.5	71.9	66.2	37.8	22.7	22.7
80°	414.1	145.7	62.4	37.8	18.9	17.0	28.4	20.8	9.4	3.8	3.8
82.5°	162.7	64.3	24.6	15.2	7.6	7.6	3.8	0.0	0.0	0.0	0.0
85°	96.5	26.4	11.4	5.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	24.6	5.6	3.8	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)