

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: P970030

Luminaire Tested: **NAV-SB6A-835-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970030
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-SB6A-835-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 350mA 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: 21531.1 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 170.9
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



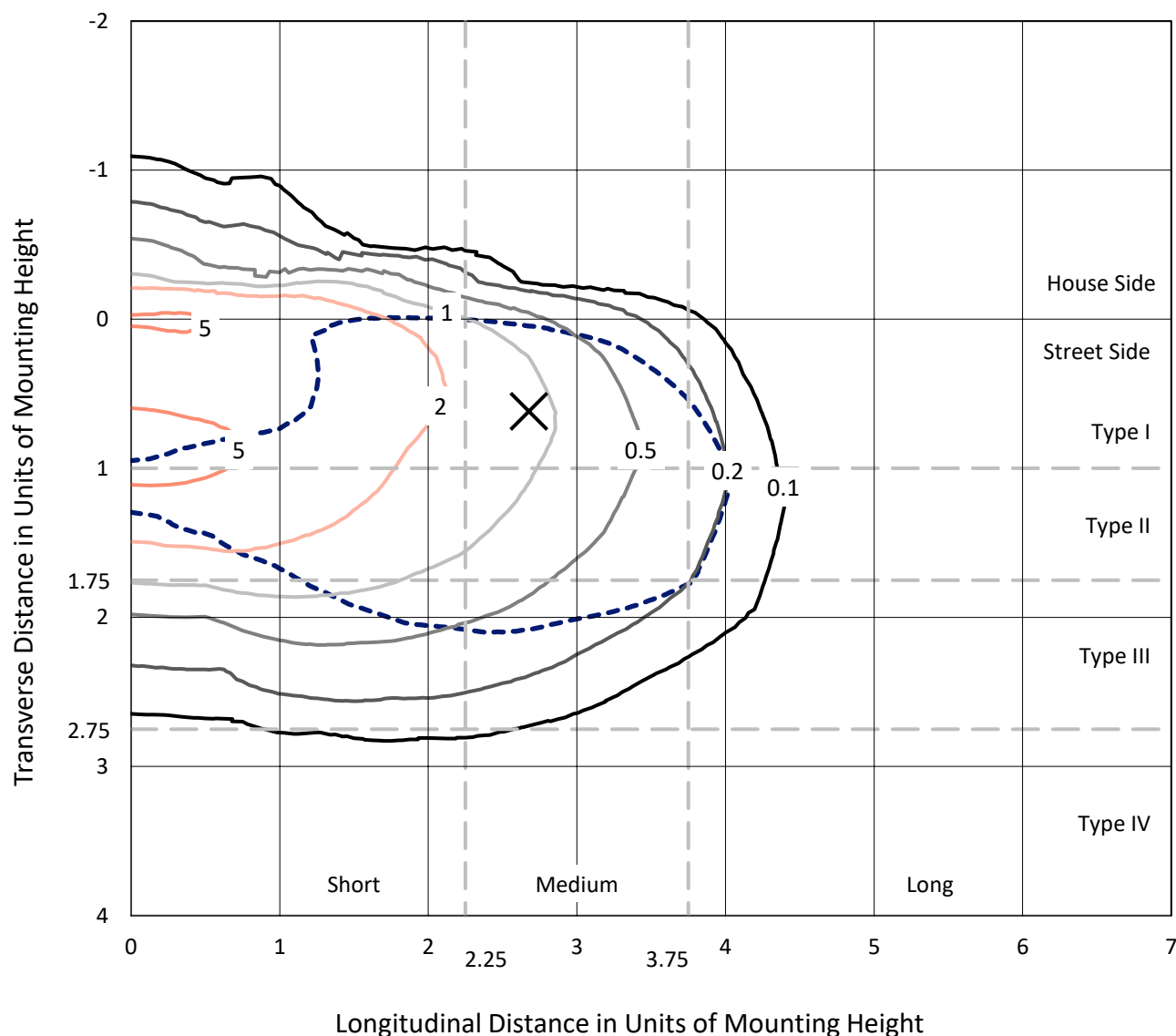
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

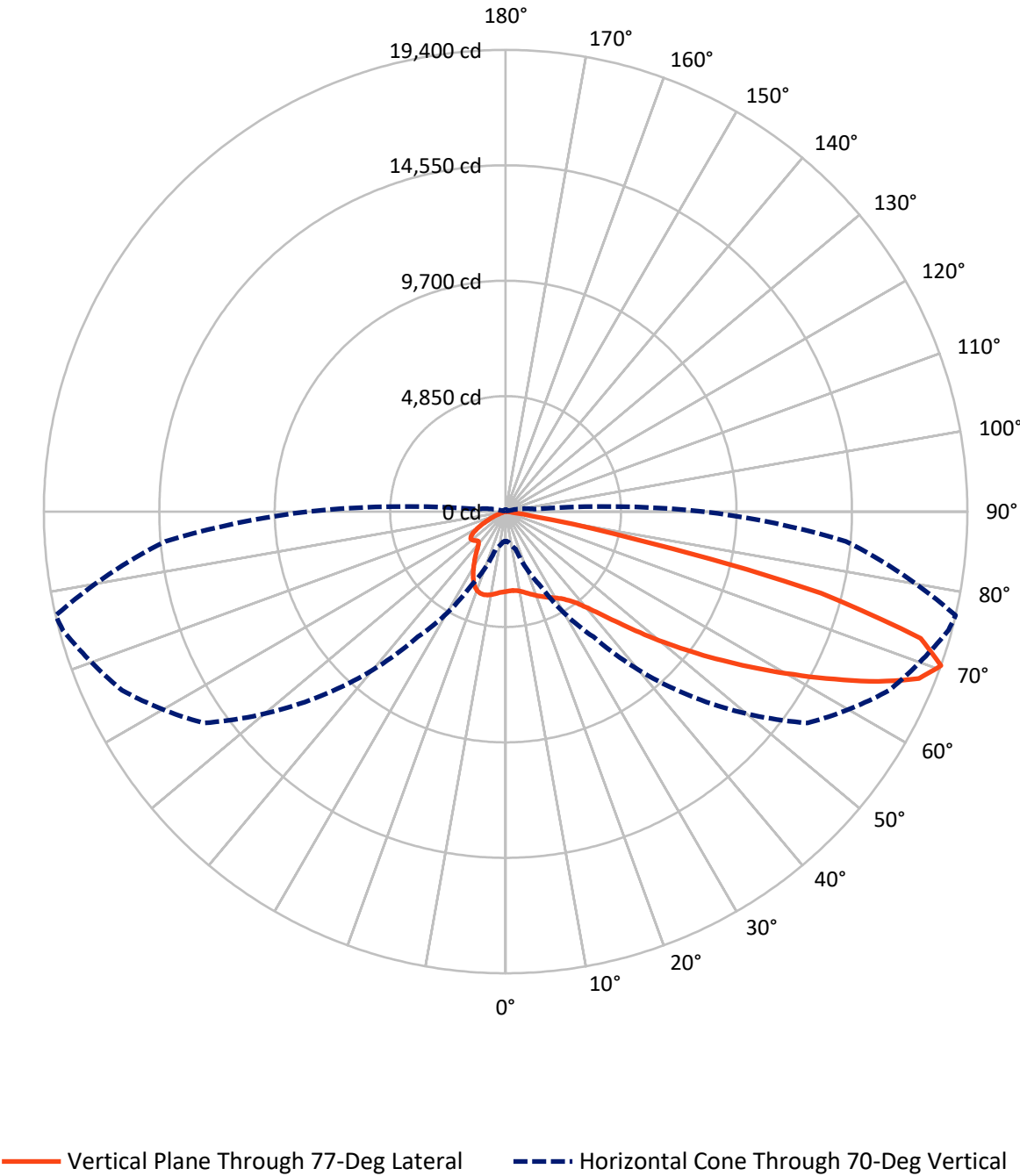
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	2269.7	0.0	2269.7
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	19261.5	0.0	19261.5
	% Fixture	89.5	0.0	89.5
Total	Lumens	21531.1	0.0	21531.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.4	1.3
10°-20°	687.1	3.2
20°-30°	1062.8	4.9
30°-40°	1928.5	9.0
40°-50°	3640.2	16.9
50°-60°	5259.8	24.4
60°-70°	5598.9	26.0
70°-80°	2967.0	13.8
80°-90°	97.4	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°	21531.1	100.0
0°-180°	21531.1	100.0

Coefficient of Utilization



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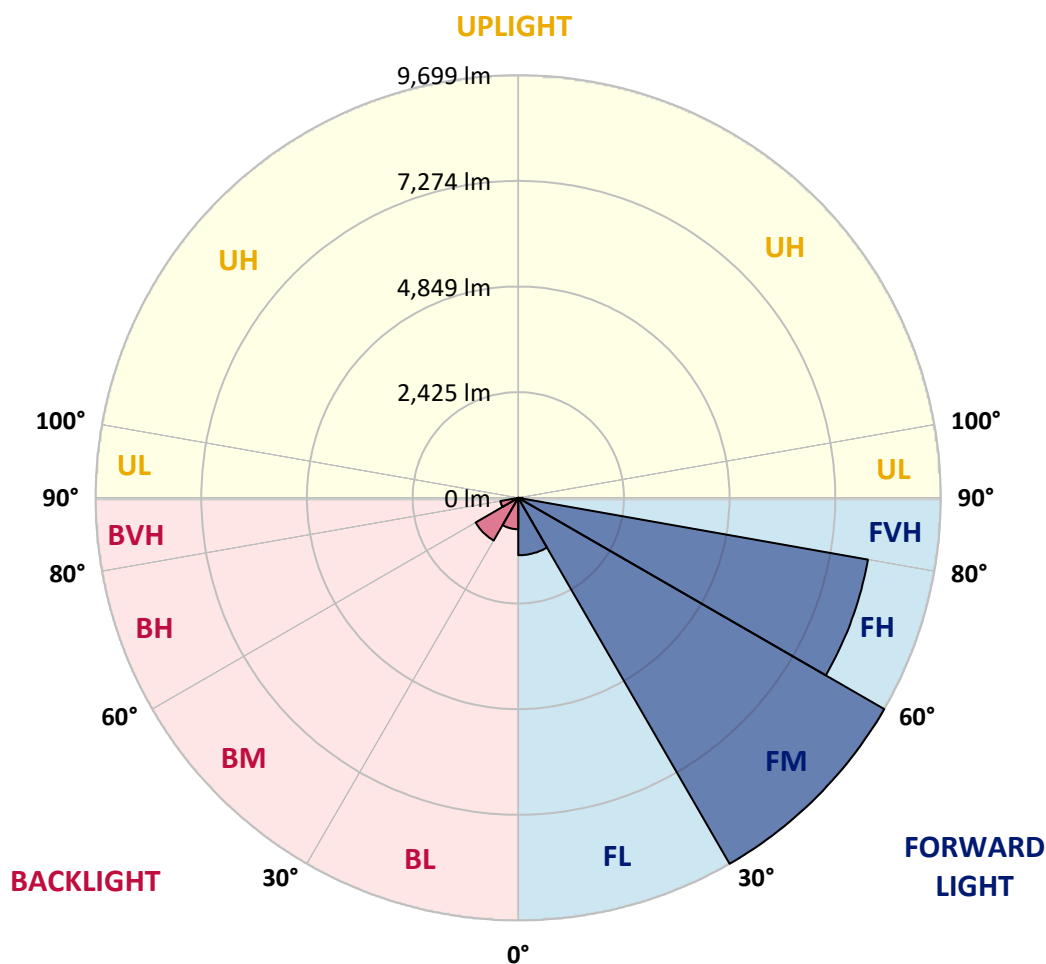
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1318.2	6.1			
FM	(30°-60°)	9698.6	45.0			
FH	(60°-80°)	8149.8	37.9			G4/12000
FVH	(80°-90°)	94.8	0.4			G1/100
BL	(0°-30°)	721.1	3.3	B2/1000		
BM	(30°-60°)	1129.9	5.2	B2/2500		
BH	(60°-80°)	416.1	1.9	B1/500		G1/500
BVH	(80°-90°)	2.6	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3358.5	3358.5	3358.5	3358.5	3358.5	3358.5	3358.5	3358.5	3358.5	3358.5	3358.5
2.5°	3153.1	3181.7	3177.6	3196.7	3203.4	3230.7	3257.9	3294.6	3335.4	3334.0	3361.2
5°	2975.1	3003.6	3010.4	3036.3	3068.8	3111.0	3166.7	3240.1	3316.3	3328.6	3382.9
7.5°	2764.3	2794.1	2811.9	2863.5	2923.4	3010.4	3101.4	3208.9	3335.4	3353.1	3457.7
10°	2553.5	2580.7	2603.8	2677.3	2772.4	2901.6	3049.8	3204.9	3374.8	3400.6	3548.9
12.5°	2423.0	2448.8	2474.7	2538.6	2656.9	2814.5	3015.9	3223.8	3440.0	3476.8	3672.6
15°	2376.8	2399.8	2420.2	2477.4	2587.5	2767.0	3009.0	3263.3	3523.0	3571.9	3822.1
17.5°	2383.5	2395.8	2409.4	2452.9	2560.3	2745.3	3021.3	3331.2	3620.9	3664.4	3971.7
20°	2423.0	2429.8	2431.2	2461.0	2556.2	2742.5	3045.8	3396.5	3713.4	3771.8	4119.9
22.5°	2473.3	2476.0	2473.3	2493.7	2582.1	2762.9	3078.4	3475.4	3816.7	3871.1	4269.4
25°	2708.6	2656.9	2591.6	2552.1	2625.6	2802.4	3127.3	3581.5	3929.5	3982.5	4415.0
27.5°	3438.7	3290.5	3056.7	2794.1	2715.3	2859.4	3195.3	3688.9	4043.7	4091.4	4571.3
30°	4624.4	4429.9	4032.9	3441.4	3003.6	2979.2	3283.7	3796.3	4164.8	4216.4	4738.6
32.5°	5812.8	5765.1	5306.9	4488.4	3652.2	3245.7	3430.6	3941.7	4325.2	4366.0	4964.3
35°	7014.7	6918.1	6542.9	5733.8	4651.6	3788.1	3675.2	4132.2	4535.9	4582.2	5293.3
37.5°	7935.2	7876.8	7644.2	6978.0	5837.2	4625.7	4094.1	4427.2	4841.9	4893.6	5714.9
40°	8748.4	8721.1	8642.3	8203.1	7162.9	5721.7	4745.3	4884.0	5266.1	5327.3	6231.5
42.5°	9387.4	9451.3	9496.2	9373.8	8529.4	6972.6	5621.0	5525.9	5857.6	5920.2	6889.6
45°	10041.4	10063.1	10244.1	10420.8	9886.4	8280.6	6608.2	6277.7	6593.2	6670.7	7678.3
47.5°	10461.6	10548.6	10866.7	11178.1	11027.2	9577.8	7668.7	7165.7	7445.7	7591.3	8562.0
50°	10492.8	10657.3	11095.2	11637.7	11858.0	10812.4	8821.8	8177.2	8475.0	8635.5	9505.6
52.5°	9972.1	10227.7	10906.2	11700.3	12306.7	11858.0	10014.2	9188.9	9570.9	9780.3	10484.7
55°	7645.6	7980.1	10195.1	11360.4	12324.4	12650.7	11175.4	10242.6	10792.0	11028.6	11542.5
57.5°	6661.2	6829.8	8015.5	10770.2	11996.7	12970.2	12225.1	11246.1	12120.4	12414.1	12541.9
60°	5542.2	5763.8	6722.4	9804.8	11552.1	13001.5	13152.4	12540.6	13560.3	13890.7	13458.4
62.5°	3766.4	4007.0	4960.2	8146.0	10944.2	12986.5	13912.5	13873.1	15160.7	15515.6	14234.8
65°	2333.2	2484.2	3112.4	6651.6	10094.4	13002.8	14707.9	15491.1	16849.5	17209.8	14835.7
67.5°	1843.8	1913.1	2240.8	5107.1	8630.1	12635.7	15502.0	17012.6	18438.9	18724.5	15019.3
70°	1238.7	1280.8	1630.3	3423.7	6420.5	10941.6	15487.0	17776.8	19257.5	19400.3	14350.3
72.5°	652.6	685.3	953.1	1585.4	3877.9	7777.5	13054.5	16863.1	18443.0	18228.2	12265.9
75°	326.4	380.7	641.8	804.9	1656.1	4337.5	8106.5	13295.2	14516.3	13684.1	7869.9
77.5°	247.4	299.1	530.3	530.3	576.6	1460.3	3433.2	7251.3	6688.4	5569.3	2310.1
80°	157.7	204.0	463.7	401.1	240.7	371.2	894.7	2031.4	1420.9	1081.0	420.1
82.5°	92.5	133.2	386.1	265.2	134.6	137.4	252.9	432.3	368.5	286.9	129.1
85°	36.7	87.0	265.2	104.7	53.0	34.0	76.2	92.5	76.2	57.1	32.6
87.5°	0.0	20.4	46.2	0.0	4.1	2.8	5.4	6.8	6.8	5.4	10.9
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°	3358.5	3358.5	3358.5	3358.5	3358.5	3358.5	3358.5	3358.5	3358.5	3358.5	3358.5
2.5°	3373.4	3376.1	3384.3	3385.7	3366.6	3342.1	3332.7	3328.6	3312.3	3310.9	3313.6
5°	3414.2	3426.5	3414.2	3378.9	3294.6	3176.3	3086.5	3013.1	2946.5	2926.1	2913.9
7.5°	3495.8	3508.1	3471.4	3332.7	3120.5	2885.3	2673.2	2523.7	2389.0	2338.7	2318.3
10°	3612.7	3629.0	3513.5	3233.4	2858.1	2480.1	2121.1	1868.3	1671.1	1590.9	1556.9
12.5°	3759.6	3766.4	3536.6	3082.5	2516.8	1977.0	1468.5	1197.9	1022.5	957.2	936.8
15°	3921.3	3911.9	3539.3	2877.2	2051.8	1397.8	958.6	787.3	716.6	694.8	694.8
17.5°	4091.4	4051.9	3484.9	2580.7	1541.9	955.9	711.1	670.3	658.0	652.6	651.3
20°	4258.6	4170.2	3385.7	2193.2	1106.8	713.8	645.9	633.7	626.8	624.1	621.4
22.5°	4410.9	4260.0	3215.7	1743.1	803.6	630.9	610.5	599.6	587.4	582.0	580.6
25°	4559.1	4311.7	2976.4	1323.0	643.2	590.1	573.8	553.4	537.1	530.3	527.6
27.5°	4703.2	4344.3	2677.3	979.0	573.8	552.1	522.1	493.5	481.3	478.6	475.9
30°	4856.9	4355.1	2337.3	730.2	531.7	504.4	460.9	428.3	421.5	422.9	422.9
32.5°	5044.5	4371.4	1994.6	598.3	496.3	447.3	395.6	361.7	356.3	361.7	360.3
35°	5268.8	4404.1	1664.3	550.6	465.0	388.9	333.1	304.5	299.1	303.2	301.9
37.5°	5573.4	4457.1	1355.7	541.2	439.2	339.9	280.1	257.0	257.0	258.3	257.0
40°	5978.6	4598.6	1079.6	534.3	425.6	303.2	236.6	227.0	231.1	233.9	233.9
42.5°	6472.2	4899.0	893.3	526.2	410.6	286.9	214.8	210.7	217.5	220.3	220.3
45°	7025.6	5279.8	828.1	512.6	397.1	297.8	205.3	199.9	208.1	209.4	210.7
47.5°	7598.0	5652.3	819.9	497.6	383.5	314.1	202.6	190.3	199.9	201.2	202.6
50°	8177.2	5895.7	828.1	474.6	361.7	314.1	204.0	180.8	189.0	193.1	194.4
52.5°	8760.6	6007.2	822.7	424.2	323.6	295.1	204.0	172.7	180.8	183.6	183.6
55°	9326.2	5985.4	739.6	349.4	274.7	261.1	198.5	165.8	171.3	172.7	172.7
57.5°	9773.6	5682.2	586.0	271.9	223.0	217.5	180.8	157.7	161.8	160.4	160.4
60°	10007.4	5015.9	418.8	209.4	175.4	171.3	159.1	146.9	149.5	142.8	141.4
62.5°	10010.2	4134.8	280.1	165.8	140.0	136.0	136.0	131.9	129.1	115.6	111.5
65°	9796.6	3157.2	186.2	131.9	112.9	106.1	114.2	112.9	103.3	84.3	81.6
67.5°	9312.6	2069.5	141.4	103.3	87.0	82.9	91.1	95.2	88.4	70.7	69.4
70°	8317.4	1204.7	117.0	80.3	65.3	61.2	73.4	81.6	73.4	57.1	54.4
72.5°	6908.7	650.0	95.2	59.9	44.9	40.8	58.4	66.6	58.4	42.1	40.8
75°	4482.9	348.1	73.4	39.5	23.2	25.8	43.5	49.0	40.8	27.2	24.5
77.5°	1505.2	153.6	46.2	19.1	10.9	10.9	25.8	29.9	19.1	9.5	8.2
80°	335.9	63.9	19.1	8.2	4.1	4.1	5.4	5.4	2.8	0.0	0.0
82.5°	110.1	25.8	8.2	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	42.1	9.5	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.3	1.3	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)