

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: P969840

Luminaire Tested: **NAV-SB6A-735-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969840
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-735-U-T2U-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21308.7 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

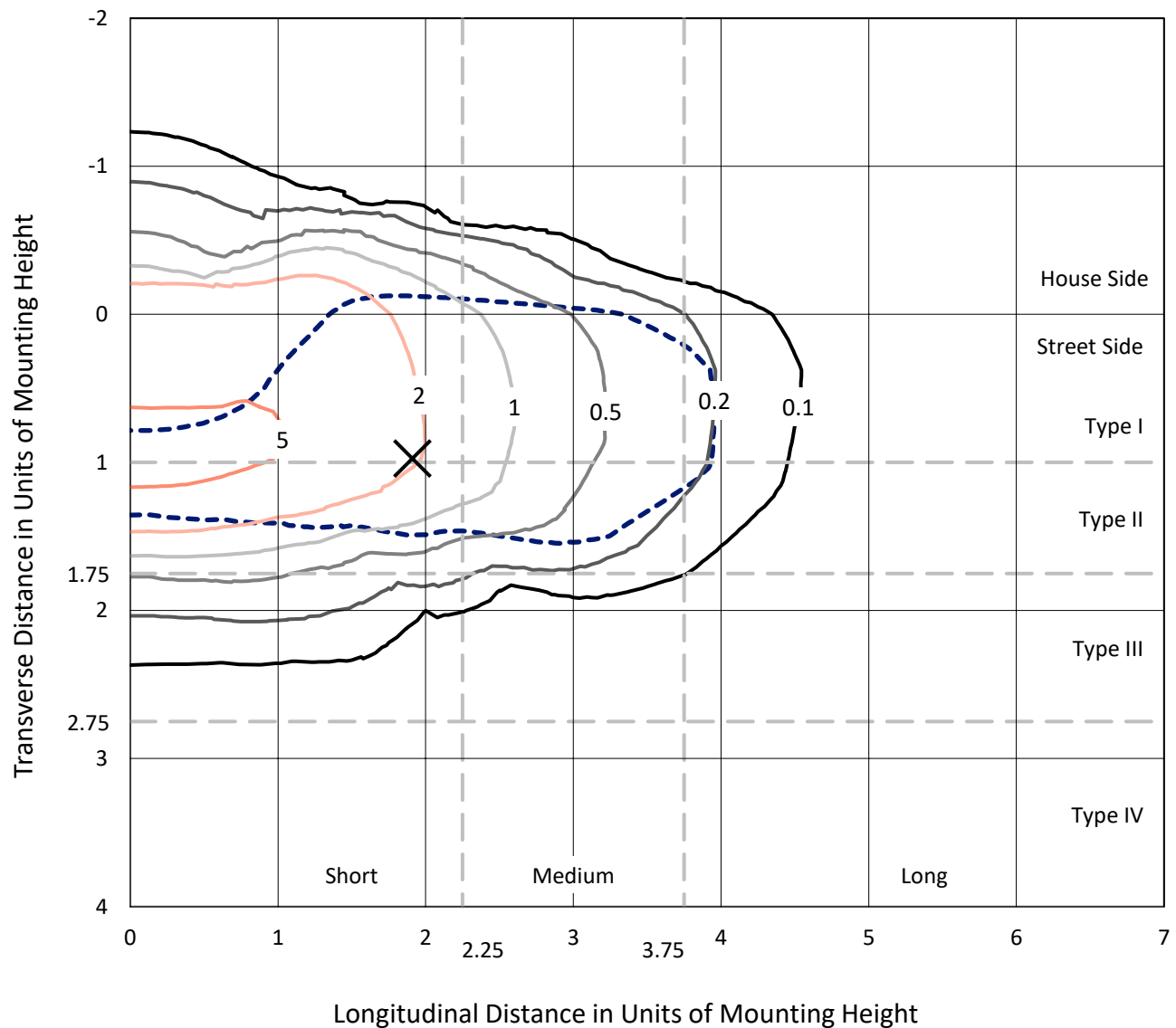
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P969840
CATALOG NUMBER: NAV-SB6A-735-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

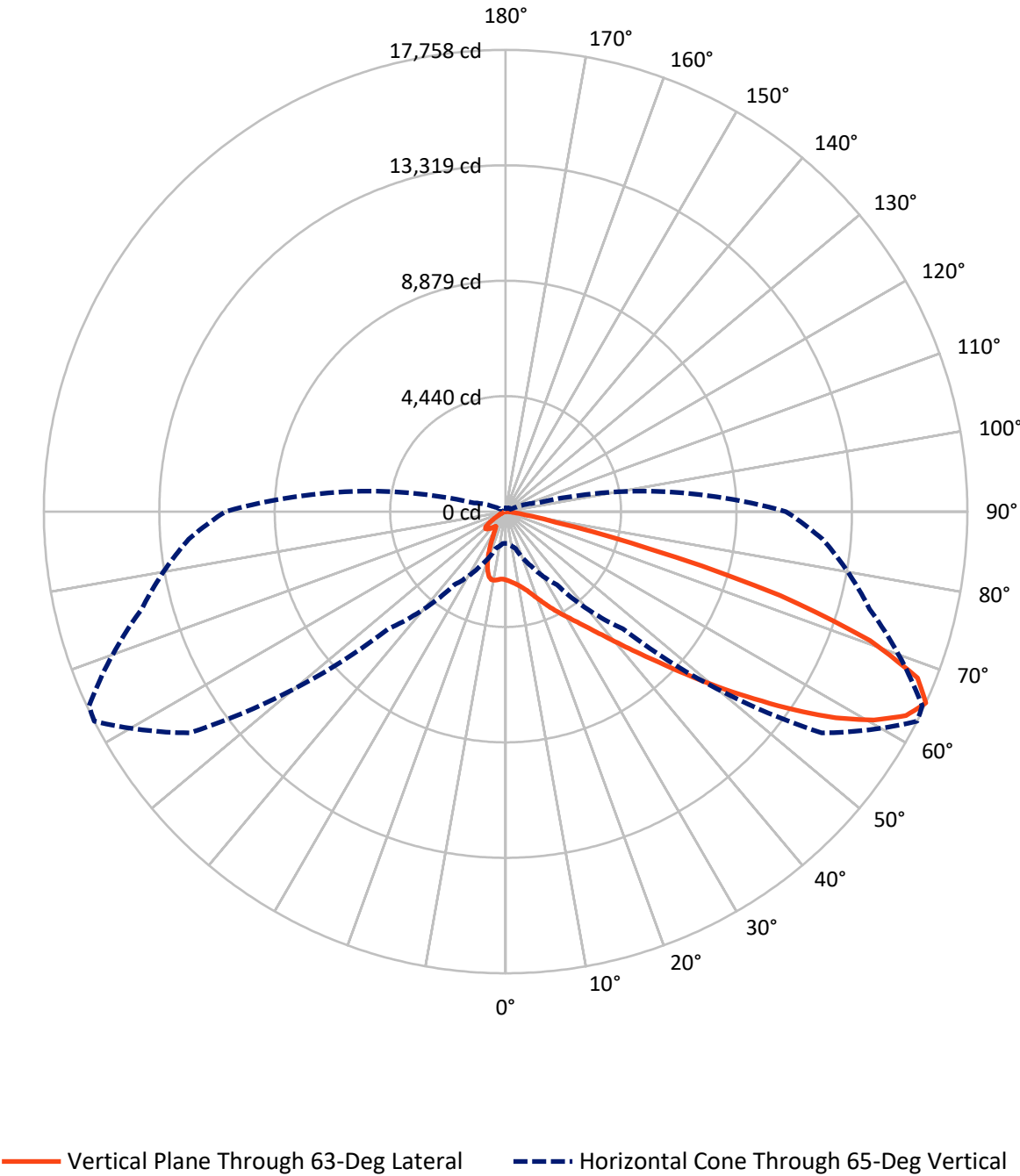
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
Type II - Short - N/A

REPORT NUMBER: P969840
CATALOG NUMBER: NAV-SB6A-735-U-T2U-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P969840

CATALOG NUMBER: NAV-SB6A-735-U-T2U-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3132.2	0.0	3132.2
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	18176.5	0.0	18176.5
	% Fixture	85.3	0.0	85.3
Total	Lumens	21308.7	0.0	21308.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.8	1.2
10°-20°	687.5	3.2
20°-30°	1197.1	5.6
30°-40°	2157.7	10.1
40°-50°	4279.4	20.1
50°-60°	5829.3	27.4
60°-70°	4652.9	21.8
70°-80°	2105.6	9.9
80°-90°	151.3	0.7
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°	21308.7	100.0
0°-180°	21308.7	100.0

Coefficient of Utilization



REPORT NUMBER: P969840

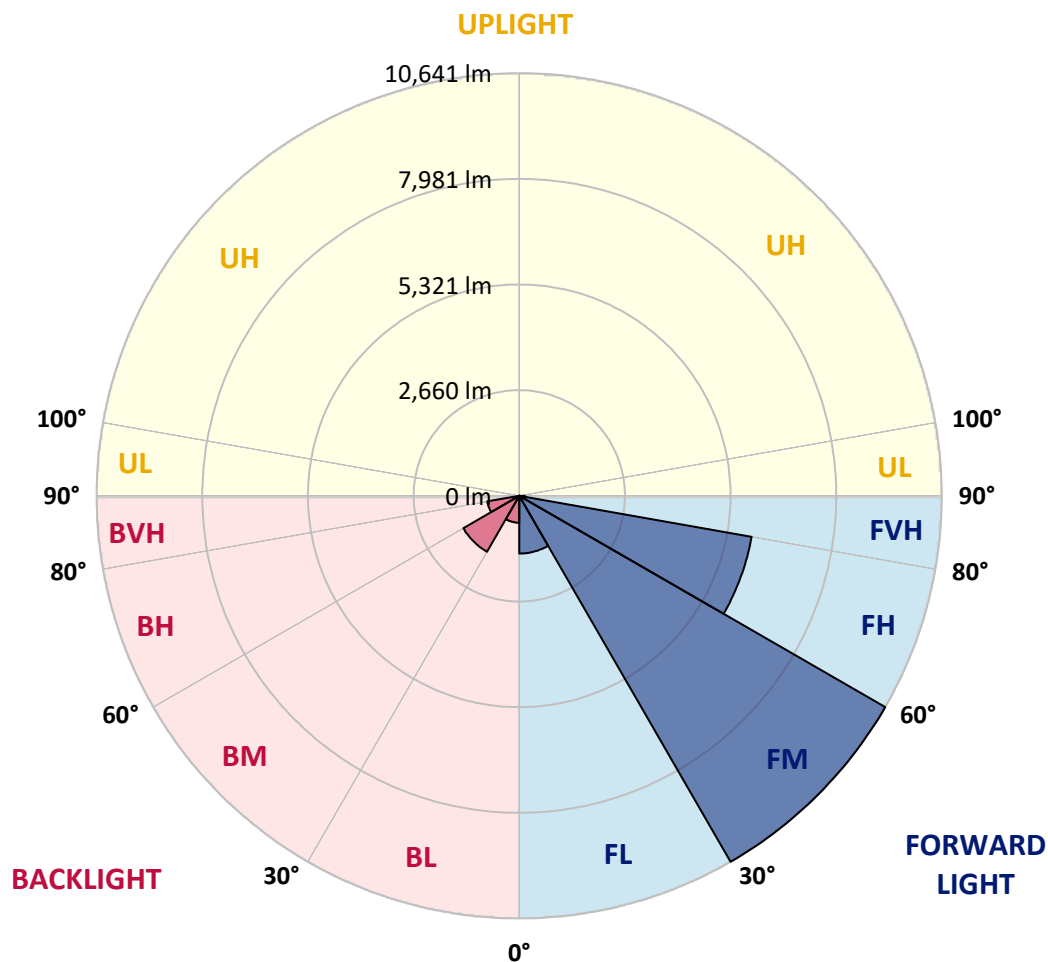
CATALOG NUMBER: NAV-SB6A-735-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1454.6	6.8			
FM	(30°-60°)	10641.0	49.9			
FH	(60°-80°)	5940.8	27.9			G3/7500
FVH	(80°-90°)	140.1	0.7			G2/225
BL	(0°-30°)	677.9	3.2	B2/1000		
BM	(30°-60°)	1625.4	7.6	B2/2500		
BH	(60°-80°)	817.7	3.8	B2/1000		G2/1000
BVH	(80°-90°)	11.2	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short



REPORT NUMBER: P969840

CATALOG NUMBER: NAV-SB6A-735-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2629.9	2629.9	2629.9	2629.9	2629.9	2629.9	2629.9	2629.9	2629.9	2629.9	2629.9
2.5°	2691.4	2684.2	2694.4	2690.0	2687.0	2681.2	2678.3	2675.4	2669.5	2665.1	2647.5
5°	2698.8	2694.4	2704.7	2713.5	2722.3	2731.0	2735.4	2741.3	2735.4	2723.7	2706.1
7.5°	2637.2	2634.2	2656.3	2682.6	2722.3	2756.0	2792.6	2813.1	2814.6	2810.2	2791.2
10°	2632.8	2625.5	2647.5	2679.8	2731.0	2791.2	2855.6	2899.6	2905.5	2924.5	2904.0
12.5°	2701.7	2694.4	2725.2	2760.3	2813.1	2876.1	2955.4	3016.9	3025.7	3052.0	3037.4
15°	2817.5	2807.3	2842.4	2887.9	2955.4	3027.1	3110.8	3166.4	3173.8	3206.0	3179.7
17.5°	2952.4	2942.2	2983.2	3031.5	3104.8	3203.1	3299.9	3361.4	3370.2	3390.7	3342.3
20°	3125.4	3112.2	3144.5	3188.5	3266.2	3383.4	3499.2	3587.2	3585.7	3585.7	3506.5
22.5°	3326.2	3305.7	3333.5	3368.8	3442.1	3584.2	3738.2	3842.2	3842.2	3801.2	3670.7
25°	3541.7	3521.2	3551.9	3584.2	3648.7	3810.0	3990.3	4119.3	4125.1	4054.8	3846.6
27.5°	3811.5	3785.0	3808.5	3846.6	3884.7	4049.0	4263.0	4412.5	4415.4	4306.9	4013.8
30°	4330.4	4255.6	4182.3	4141.3	4158.8	4321.6	4550.3	4715.9	4730.6	4581.0	4195.5
32.5°	5280.3	5265.6	5007.6	4670.5	4494.6	4614.8	4871.3	5070.7	5079.5	4887.4	4431.6
35°	6756.5	6739.0	6324.0	5682.0	5108.8	5007.6	5261.2	5497.3	5491.4	5274.4	4738.0
37.5°	8518.6	8502.5	7955.6	7096.6	6168.7	5601.3	5764.1	6011.8	6048.5	5764.1	5133.7
40°	10024.1	9964.0	9618.1	8789.8	7576.0	6586.4	6479.4	6643.6	6681.8	6344.5	5636.6
42.5°	11164.6	11113.3	10937.4	10419.9	9279.4	8043.6	7322.4	7385.4	7428.0	7023.3	6214.2
45°	11755.4	11743.6	11814.0	11765.7	11015.1	9832.1	8527.4	8265.0	8281.1	7775.3	6869.4
47.5°	11839.0	11833.1	12154.1	12608.5	12507.5	11849.2	10073.9	9361.5	9304.3	8624.1	7581.8
50°	11346.3	11334.7	11950.4	12802.0	13504.3	13543.8	11830.1	10597.3	10471.2	9502.3	8325.0
52.5°	9773.5	9770.5	10782.0	12199.6	13854.6	15027.3	13565.9	11954.8	11743.6	10431.6	9110.8
55°	7520.3	7574.5	8734.1	10409.7	13215.4	15741.2	15124.1	13461.7	13137.7	11366.9	9835.0
57.5°	5327.2	5406.4	6552.7	8045.1	11233.5	15319.1	16178.1	14971.7	14622.8	12299.3	10569.4
60°	2861.5	2931.9	4079.7	5860.8	8357.3	13744.6	16733.7	16282.2	15952.4	13184.7	11232.1
62.5°	1704.9	1728.4	2203.3	3783.6	5652.7	10500.5	16497.7	17280.5	17009.4	13927.9	11808.2
65°	1224.1	1228.5	1467.4	2310.4	3431.8	6379.8	14842.6	17758.4	17674.9	14487.9	12234.7
67.5°	1030.5	1027.7	1127.3	1534.8	2338.1	3195.7	11375.8	17082.6	17437.4	14842.6	12476.6
70°	884.0	888.4	1005.6	1124.4	1757.7	1809.0	5655.6	14873.5	15629.9	14936.5	12461.9
72.5°	658.3	672.9	781.4	1024.7	1326.7	1244.6	1952.6	11028.3	12396.0	14073.0	11815.5
75°	464.7	472.0	549.7	861.9	989.5	906.0	996.8	5701.0	7454.3	10789.4	9670.8
77.5°	357.7	370.8	416.4	602.5	974.9	636.2	609.9	1973.1	3031.5	6517.6	6630.4
80°	193.5	217.0	300.5	435.4	684.6	450.1	302.0	785.8	1027.7	3047.7	2556.6
82.5°	99.7	111.4	209.6	313.8	389.9	392.9	149.5	326.9	423.6	941.2	350.3
85°	39.6	48.4	140.7	173.0	200.8	193.5	67.4	131.9	152.4	261.0	107.0
87.5°	8.8	14.7	51.4	39.6	38.1	41.0	16.1	30.7	29.3	30.7	19.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P969840

CATALOG NUMBER: NAV-SB6A-735-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2629.9	2629.9	2629.9	2629.9	2629.9	2629.9	2629.9	2629.9	2629.9	2629.9	2629.9
2.5°	2646.0	2640.2	2624.0	2606.5	2585.9	2574.2	2566.9	2565.4	2555.1	2547.8	2555.1
5°	2690.0	2684.2	2653.3	2616.7	2577.2	2546.3	2517.0	2490.6	2452.5	2445.2	2442.3
7.5°	2778.0	2761.9	2711.9	2662.1	2587.4	2497.9	2389.5	2264.8	2153.4	2119.8	2103.6
10°	2886.4	2864.5	2801.4	2713.5	2547.8	2304.5	2042.1	1798.7	1605.3	1550.9	1530.4
12.5°	3009.6	2990.5	2907.0	2744.2	2382.2	1940.9	1539.2	1237.3	1049.6	1002.7	989.5
15°	3156.2	3128.3	3012.5	2697.3	2086.1	1474.8	1057.0	878.1	810.7	801.9	793.0
17.5°	3311.6	3266.2	3106.4	2528.8	1687.3	1048.2	816.5	765.3	735.9	727.1	722.7
20°	3453.7	3395.1	3162.0	2273.7	1260.8	816.5	731.5	697.8	671.4	661.1	655.3
22.5°	3595.9	3512.4	3162.0	1926.3	945.6	724.2	671.4	640.6	609.9	596.7	589.3
25°	3744.0	3632.6	3106.4	1539.2	760.9	664.1	614.2	580.6	554.1	538.0	532.2
27.5°	3887.7	3733.8	2978.8	1172.7	677.2	611.3	561.5	529.2	504.3	492.5	492.5
30°	4024.0	3833.4	2800.0	889.8	623.0	560.0	513.1	485.2	460.3	448.5	450.1
32.5°	4208.8	3959.5	2609.3	730.0	576.2	511.6	469.1	442.7	420.8	411.9	411.9
35°	4465.2	4145.7	2445.2	716.9	536.5	472.0	429.5	404.6	382.6	375.3	375.3
37.5°	4828.8	4446.2	2358.7	804.8	504.3	436.9	397.3	370.8	350.3	344.5	343.1
40°	5277.4	4853.7	2405.6	892.8	482.3	406.1	368.0	341.5	324.0	316.6	315.2
42.5°	5809.5	5356.5	2665.1	960.2	467.6	379.7	340.1	310.8	299.1	296.1	296.1
45°	6420.8	5909.2	3062.4	1032.1	444.1	354.8	312.2	290.3	281.5	280.0	278.5
47.5°	7115.7	6516.1	3522.6	1121.5	420.8	331.3	290.3	275.6	268.2	265.4	265.4
50°	7804.7	7127.4	3996.2	1171.3	401.7	309.3	272.6	261.0	255.1	253.6	253.6
52.5°	8525.9	7756.3	4378.8	1124.4	385.5	291.7	258.0	249.2	243.3	241.9	241.9
55°	9213.4	8265.0	4444.7	954.4	353.3	274.1	241.9	237.5	230.1	230.1	228.7
57.5°	9805.7	8520.0	3978.5	700.7	321.0	247.7	225.7	221.4	215.5	214.0	212.6
60°	10349.5	8446.7	3071.1	472.0	285.9	221.4	205.2	202.3	196.4	189.1	187.7
62.5°	10655.9	8124.3	2100.7	307.8	250.7	193.5	181.7	180.3	167.1	152.4	149.5
65°	10771.7	7461.7	1310.6	224.3	209.6	165.6	156.8	154.0	134.9	118.7	117.3
67.5°	10670.6	6371.0	661.1	177.4	165.6	137.8	129.0	129.0	115.8	101.2	99.7
70°	10266.0	4776.0	278.5	142.2	127.5	105.6	105.6	111.4	98.2	82.1	80.7
72.5°	9387.9	3213.4	148.0	108.4	95.3	74.7	86.5	90.9	77.7	61.6	61.6
75°	7463.1	1960.0	102.6	80.7	60.1	52.8	66.0	68.9	52.8	41.0	39.6
77.5°	5104.4	1125.9	68.9	51.4	38.1	30.7	45.4	42.5	27.9	19.1	20.5
80°	2241.5	469.1	39.6	23.5	14.7	11.7	16.1	11.7	8.8	5.8	5.8
82.5°	262.4	110.0	14.7	8.8	5.8	3.0	1.4	0.0	0.0	0.0	0.0
85°	54.2	13.2	7.4	3.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.2	3.0	1.4	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)