

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: P969902

Luminaire Tested: **NAV-SB6A-750-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969902
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-750-U-T2U-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 5000K, 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: 22543.9 lumens
Efficiency: N/A
Efficacy: 131.9 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



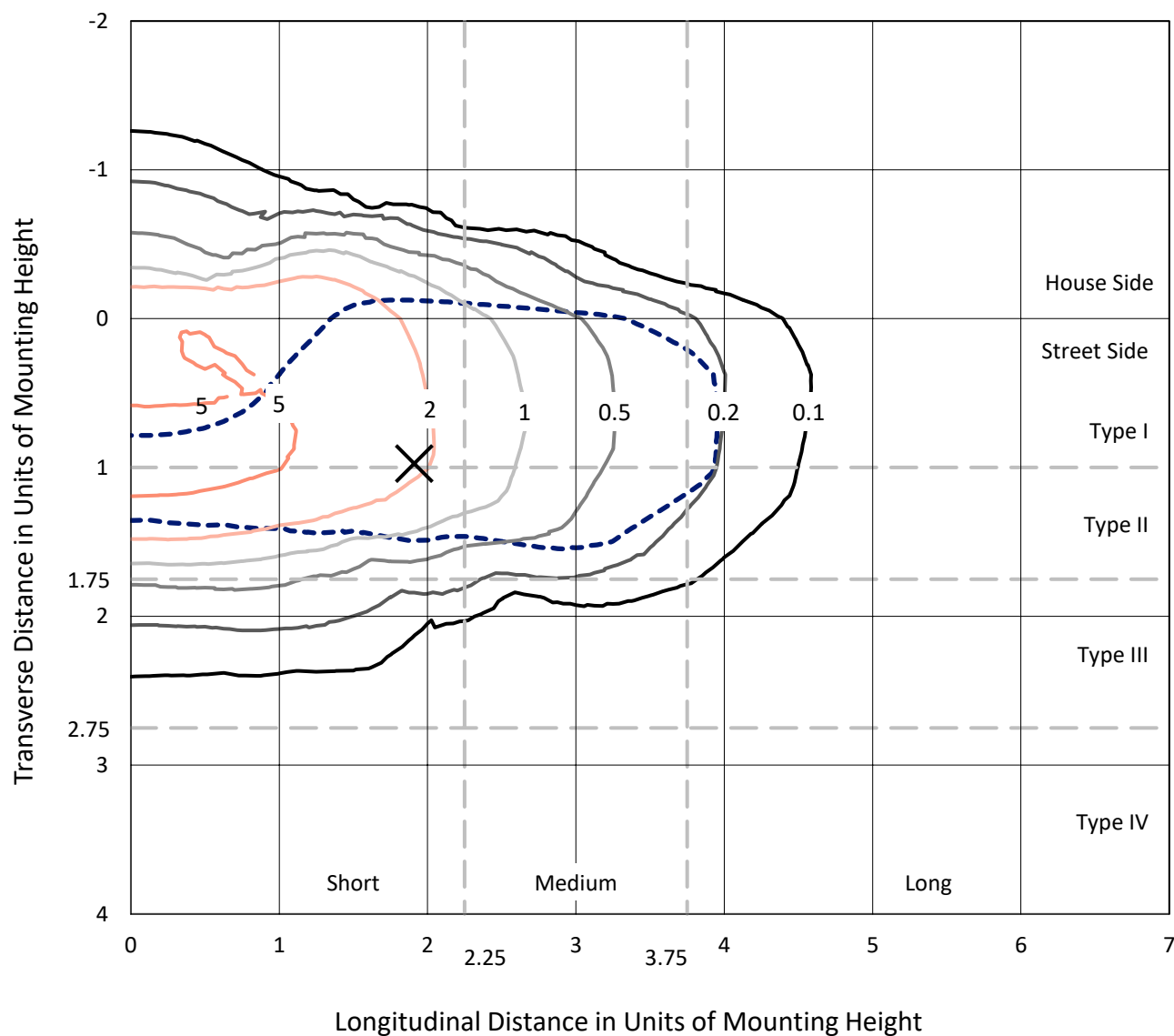
REPORT NUMBER: P969902

CATALOG NUMBER: NAV-SB6A-750-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

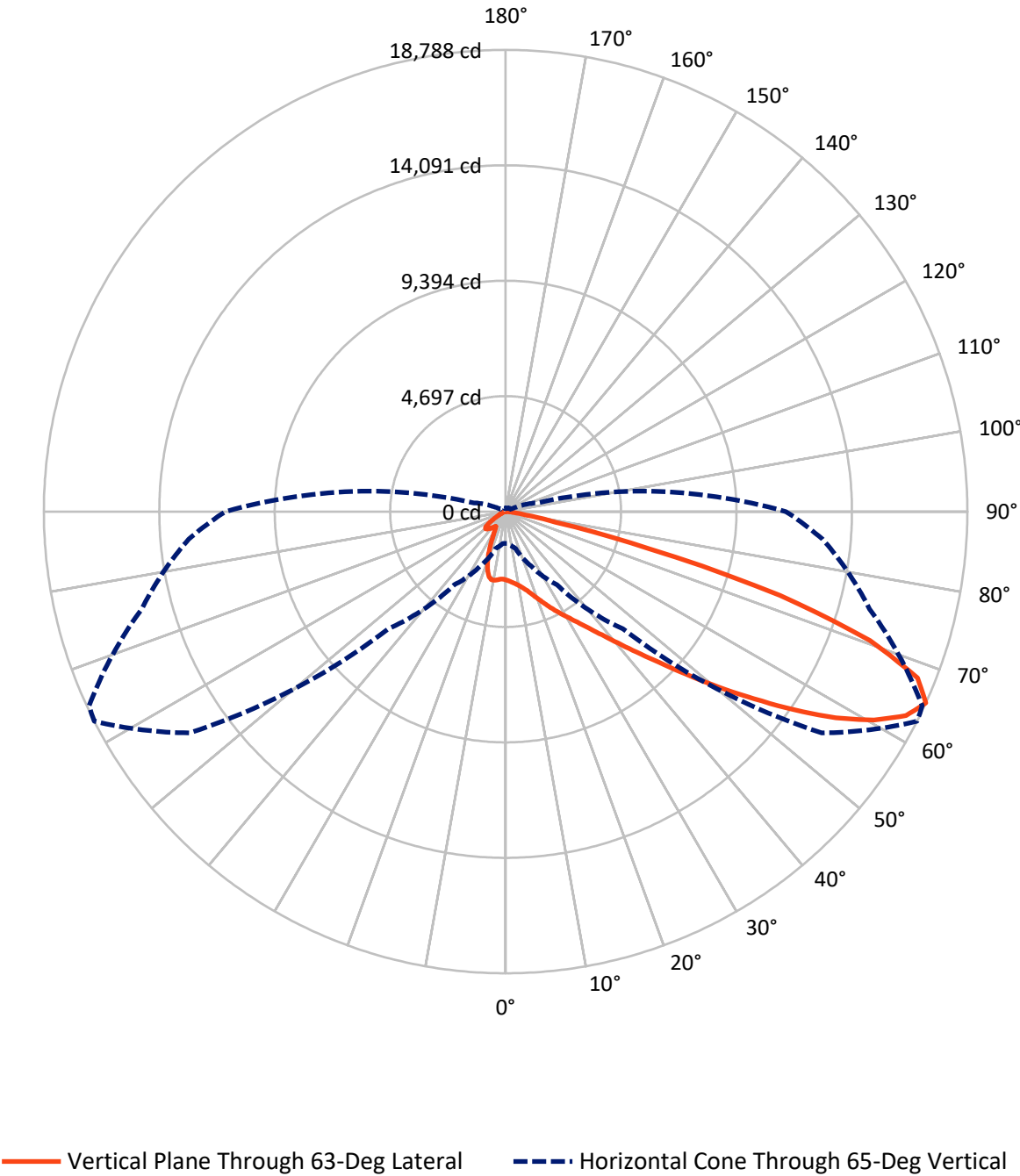


Based on 25 foot mounting height. Maximum calculated value = 7.6 fc

Type II - Short - N/A

REPORT NUMBER: P969902
CATALOG NUMBER: NAV-SB6A-750-U-T2U-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P969902

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3313.8	0.0	3313.8
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	19230.1	0.0	19230.1
	% Fixture	85.3	0.0	85.3
Total	Lumens	22543.9	0.0	22543.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.1	1.2
10°-20°	727.4	3.2
20°-30°	1266.5	5.6
30°-40°	2282.8	10.1
40°-50°	4527.5	20.1
50°-60°	6167.2	27.4
60°-70°	4922.6	21.8
70°-80°	2227.6	9.9
80°-90°	160.1	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°	22543.9	100.0
0°-180°	22543.9	100.0

Coefficient of Utilization



REPORT NUMBER: P969902

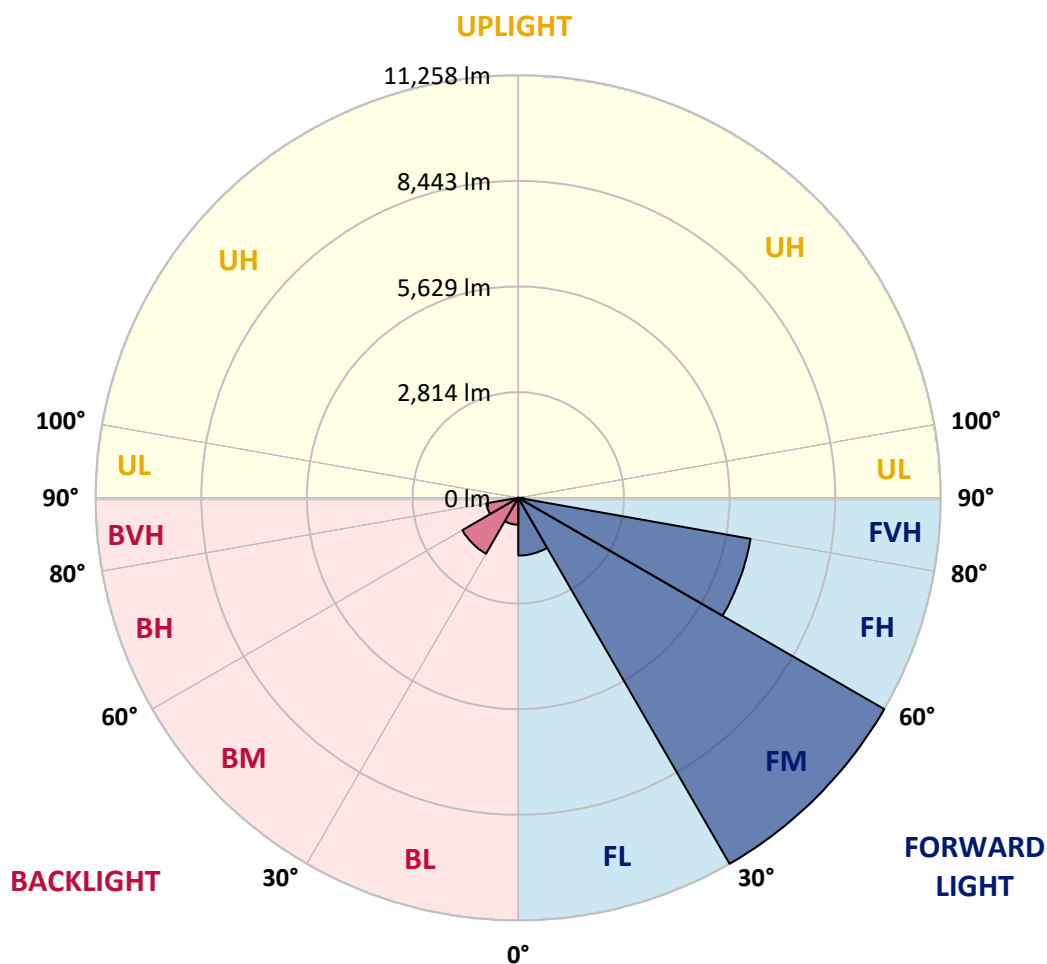
CATALOG NUMBER: NAV-SB6A-750-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1538.9	6.8			
FM	(30°-60°)	11257.8	49.9			
FH	(60°-80°)	6285.1	27.9			G3/7500
FVH	(80°-90°)	148.2	0.7			G2/225
BL	(0°-30°)	717.2	3.2	B2/1000		
BM	(30°-60°)	1719.6	7.6	B2/2500		
BH	(60°-80°)	865.1	3.8	B2/1000		G2/1000
BVH	(80°-90°)	11.9	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: P969902

CATALOG NUMBER: NAV-SB6A-750-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2782.4	2782.4	2782.4	2782.4	2782.4	2782.4	2782.4	2782.4	2782.4	2782.4	2782.4
2.5°	2847.4	2839.8	2850.6	2845.9	2842.8	2836.6	2833.5	2830.4	2824.2	2819.6	2800.9
5°	2855.2	2850.6	2861.4	2870.7	2880.0	2889.4	2894.0	2900.2	2894.0	2881.6	2863.0
7.5°	2790.0	2787.0	2810.2	2838.1	2880.0	2915.7	2954.5	2976.2	2977.7	2973.1	2952.9
10°	2785.4	2777.6	2800.9	2835.0	2889.4	2952.9	3021.2	3067.7	3073.9	3094.1	3072.3
12.5°	2858.3	2850.6	2883.1	2920.3	2976.2	3042.9	3126.7	3191.7	3201.1	3229.0	3213.5
15°	2980.9	2970.0	3007.2	3055.3	3126.7	3202.6	3291.1	3350.0	3357.7	3391.8	3363.9
17.5°	3123.6	3112.7	3156.1	3207.3	3284.8	3388.8	3491.2	3556.2	3565.6	3587.3	3536.0
20°	3306.5	3292.6	3326.7	3373.3	3455.5	3579.5	3702.0	3795.1	3793.5	3793.5	3709.8
22.5°	3519.0	3497.3	3526.8	3564.0	3641.5	3792.0	3954.9	4064.9	4064.9	4021.5	3883.5
25°	3747.0	3725.3	3757.9	3792.0	3860.3	4030.8	4221.6	4358.1	4364.2	4289.8	4069.6
27.5°	4032.3	4004.5	4029.3	4069.6	4109.9	4283.6	4510.1	4668.3	4671.3	4556.5	4246.4
30°	4581.4	4502.3	4424.7	4381.4	4399.9	4572.1	4814.0	4989.3	5004.8	4846.6	4438.8
32.5°	5586.4	5570.9	5297.9	4941.2	4755.1	4882.3	5153.7	5364.6	5373.9	5170.7	4688.5
35°	7148.1	7129.6	6690.7	6011.3	5404.9	5297.9	5566.3	5816.0	5809.7	5580.2	5012.6
37.5°	9012.3	8995.3	8416.8	7507.9	6526.3	5926.0	6098.2	6360.3	6399.1	6098.2	5431.3
40°	10605.2	10541.5	10175.6	9299.3	8015.1	6968.3	6855.0	7028.7	7069.0	6712.3	5963.2
42.5°	11811.8	11757.5	11571.3	11023.9	9817.2	8509.9	7746.8	7813.5	7858.5	7430.4	6574.4
45°	12436.7	12424.3	12498.8	12447.6	11653.5	10402.0	9021.6	8744.1	8761.1	8226.0	7267.6
47.5°	12525.2	12518.9	12858.6	13339.4	13232.3	12536.1	10657.8	9904.2	9843.7	9124.0	8021.3
50°	12004.1	11991.7	12643.1	13544.1	14287.0	14328.9	12515.9	11211.6	11078.2	10053.0	8807.6
52.5°	10339.9	10336.8	11406.9	12906.7	14657.7	15898.4	14352.2	12647.7	12424.3	11036.3	9638.9
55°	7956.2	8013.6	9240.4	11013.0	13981.5	16653.7	16000.8	14242.1	13899.3	12025.8	10405.1
57.5°	5636.1	5719.8	6932.6	8511.4	11884.7	16207.0	17115.9	15839.4	15470.3	13012.2	11182.0
60°	3027.3	3101.9	4316.2	6200.5	8841.8	14541.4	17703.7	17225.9	16877.0	13948.9	11883.1
62.5°	1803.7	1828.5	2331.1	4002.9	5980.4	11109.2	17454.0	18282.2	17995.2	14735.2	12492.6
65°	1295.0	1299.7	1552.5	2444.2	3630.7	6749.5	15703.0	18787.7	18699.4	15327.6	12943.9
67.5°	1090.3	1087.2	1192.7	1623.8	2473.7	3381.0	12035.0	18072.8	18448.2	15703.0	13199.8
70°	935.2	939.8	1063.9	1189.5	1859.6	1913.8	5983.4	15735.6	16535.8	15802.2	13184.3
72.5°	696.4	711.9	826.7	1084.0	1403.5	1316.7	2065.8	11667.5	13114.5	14888.7	12500.4
75°	491.6	499.4	581.6	911.9	1046.8	958.5	1054.6	6031.5	7886.4	11414.7	10231.3
77.5°	378.4	392.4	440.4	637.4	1031.4	673.1	645.1	2087.5	3207.3	6895.4	7014.8
80°	204.7	229.5	318.0	460.6	724.3	476.1	319.5	831.3	1087.2	3224.3	2704.8
82.5°	105.5	117.9	221.8	331.9	412.6	415.6	158.2	345.8	448.2	995.7	370.6
85°	41.9	51.1	148.9	183.0	212.5	204.7	71.3	139.6	161.3	276.0	113.3
87.5°	9.3	15.5	54.3	41.9	40.3	43.5	17.0	32.6	31.1	32.6	20.2
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: P969902

CATALOG NUMBER: NAV-SB6A-750-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2782.4	2782.4	2782.4	2782.4	2782.4	2782.4	2782.4	2782.4	2782.4	2782.4	2782.4
2.5°	2799.4	2793.2	2776.1	2757.6	2735.8	2723.4	2715.6	2714.1	2703.2	2695.4	2703.2
5°	2845.9	2839.8	2807.2	2768.4	2726.5	2693.9	2663.0	2635.0	2594.7	2586.9	2583.8
7.5°	2939.0	2922.0	2869.2	2816.5	2737.4	2642.8	2528.0	2396.1	2278.3	2242.6	2225.6
10°	3053.8	3030.5	2963.8	2870.7	2695.4	2438.1	2160.4	1903.0	1698.2	1640.8	1619.2
12.5°	3184.1	3163.9	3075.4	2903.3	2520.3	2053.4	1628.4	1308.9	1110.5	1060.9	1046.8
15°	3339.1	3309.6	3187.1	2853.7	2206.9	1560.3	1118.2	929.0	857.6	848.4	839.1
17.5°	3503.6	3455.5	3286.4	2675.4	1785.1	1108.9	863.9	809.5	778.6	769.3	764.6
20°	3653.9	3591.9	3345.3	2405.5	1333.8	863.9	773.9	738.2	710.3	699.5	693.2
22.5°	3804.4	3716.0	3345.3	2037.9	1000.3	766.2	710.3	677.7	645.1	631.2	623.5
25°	3961.0	3843.1	3286.4	1628.4	804.9	702.5	649.8	614.2	586.2	569.2	562.9
27.5°	4113.0	3950.1	3151.5	1240.8	716.5	646.8	594.0	559.9	533.5	521.1	521.1
30°	4257.2	4055.6	2962.2	941.4	659.2	592.4	542.8	513.3	487.0	474.6	476.1
32.5°	4452.7	4189.0	2760.6	772.3	609.5	541.3	496.3	468.4	445.2	435.8	435.8
35°	4724.1	4386.0	2586.9	758.4	567.6	499.4	454.4	428.0	404.8	397.0	397.0
37.5°	5108.7	4703.9	2495.5	851.5	533.5	462.2	420.2	392.4	370.6	364.5	363.0
40°	5583.3	5135.0	2545.1	944.5	510.2	429.6	389.3	361.3	342.8	335.0	333.4
42.5°	6146.3	5667.0	2819.6	1015.9	494.8	401.7	359.8	328.8	316.4	313.2	313.2
45°	6793.0	6251.7	3239.8	1091.8	470.0	375.4	330.4	307.1	297.8	296.2	294.7
47.5°	7528.1	6893.8	3726.8	1186.4	445.2	350.5	307.1	291.6	283.8	280.7	280.7
50°	8257.1	7540.5	4227.8	1239.2	425.0	327.3	288.4	276.0	269.9	268.3	268.3
52.5°	9020.1	8205.8	4632.6	1189.5	407.8	308.6	273.0	263.6	257.5	255.9	255.9
55°	9747.4	8744.1	4702.4	1009.6	373.8	290.0	255.9	251.2	243.5	243.5	241.9
57.5°	10374.0	9014.0	4209.2	741.4	339.7	262.1	238.8	234.2	228.0	226.4	224.9
60°	10949.5	8936.4	3249.1	499.4	302.5	234.2	217.1	214.0	207.9	200.1	198.5
62.5°	11273.6	8595.1	2222.5	325.6	265.2	204.7	192.3	190.8	176.8	161.3	158.2
65°	11396.2	7894.1	1386.5	237.3	221.8	175.3	165.9	162.9	142.7	125.7	124.0
67.5°	11289.0	6740.3	699.5	187.7	175.3	145.8	136.5	136.5	122.5	107.0	105.5
70°	10861.0	5052.8	294.7	150.5	134.9	111.6	111.6	117.9	103.9	86.8	85.3
72.5°	9932.0	3399.6	156.6	114.8	100.9	79.1	91.5	96.1	82.2	65.1	65.1
75°	7895.7	2073.6	108.5	85.3	63.6	55.9	69.8	72.9	55.9	43.5	41.9
77.5°	5400.3	1191.0	72.9	54.3	40.3	32.6	48.1	45.0	29.4	20.2	21.7
80°	2371.3	496.3	41.9	24.8	15.5	12.4	17.0	12.4	9.3	6.3	6.3
82.5°	277.6	116.3	15.5	9.3	6.3	3.1	1.5	0.0	0.0	0.0	0.0
85°	57.4	13.9	7.8	3.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.9	3.1	1.5	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)