

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: P969843

Luminaire Tested: **NAV-SB6A-735-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969843
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-SB6A-735-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 350mA 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: 21867.3 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - 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

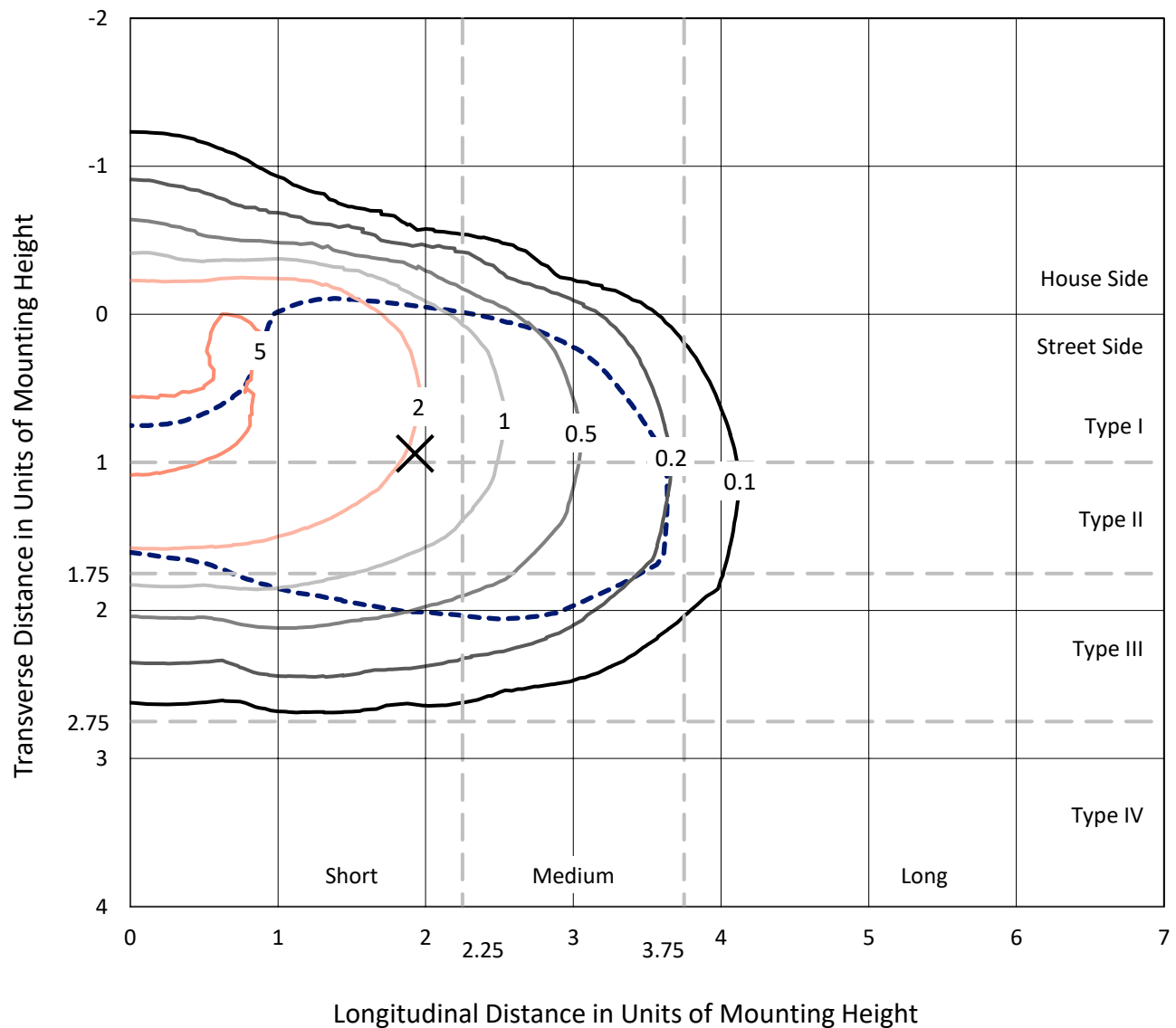


REPORT NUMBER: P969843

CATALOG NUMBER: NAV-SB6A-735-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

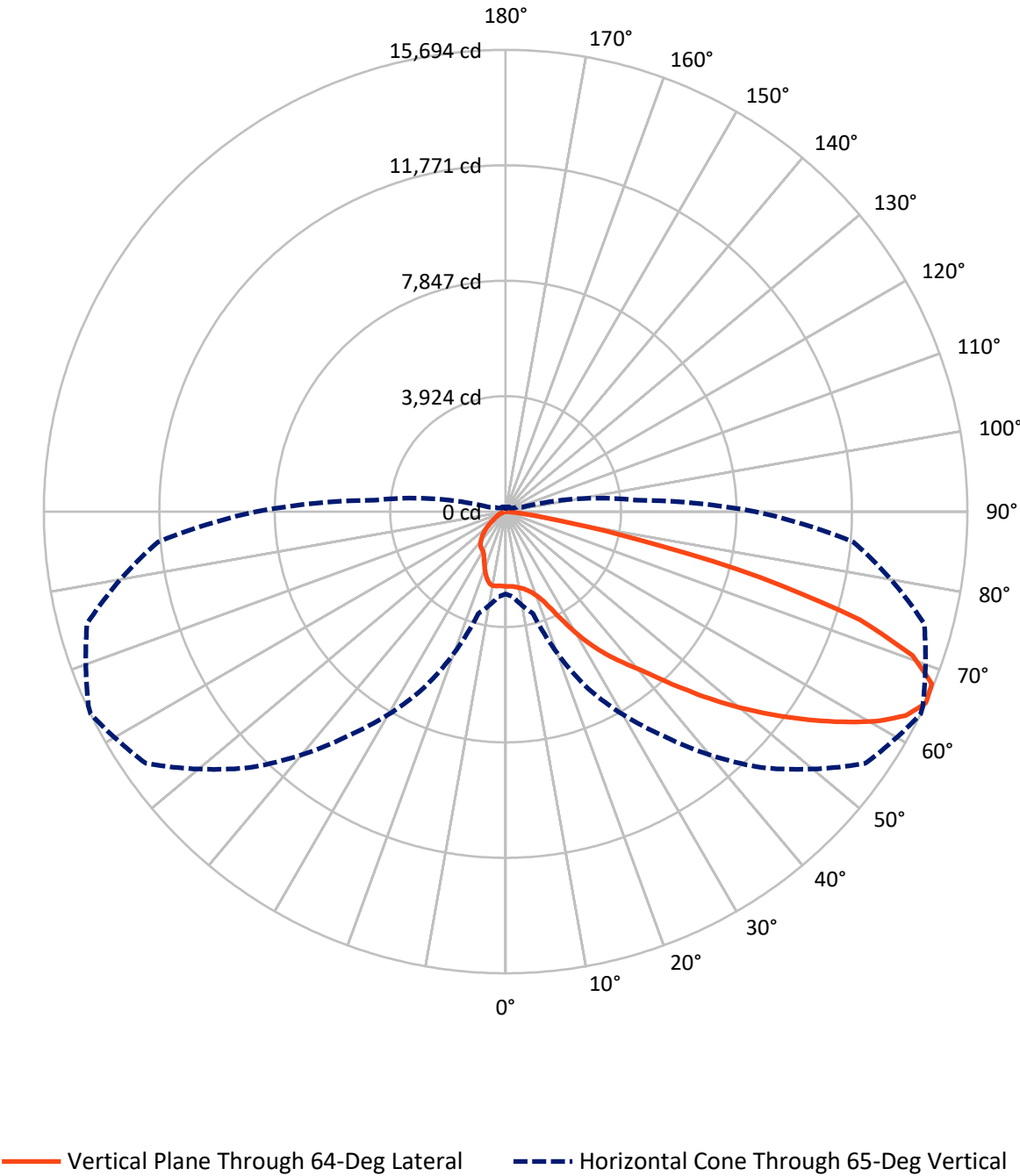
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
Type III - Short - N/A

REPORT NUMBER: P969843
CATALOG NUMBER: NAV-SB6A-735-U-T3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P969843

CATALOG NUMBER: NAV-SB6A-735-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2924.3	0.0	2924.3
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	18943.0	0.0	18943.0
	% Fixture	86.6	0.0	86.6
Total	Lumens	21867.3	0.0	21867.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.7	1.1
10°-20°	636.5	2.9
20°-30°	1206.0	5.5
30°-40°	2440.4	11.2
40°-50°	4157.3	19.0
50°-60°	5653.5	25.9
60°-70°	5309.0	24.3
70°-80°	2127.0	9.7
80°-90°	103.0	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°	21867.3	100.0
0°-180°	21867.3	100.0

Coefficient of Utilization



REPORT NUMBER: P969843

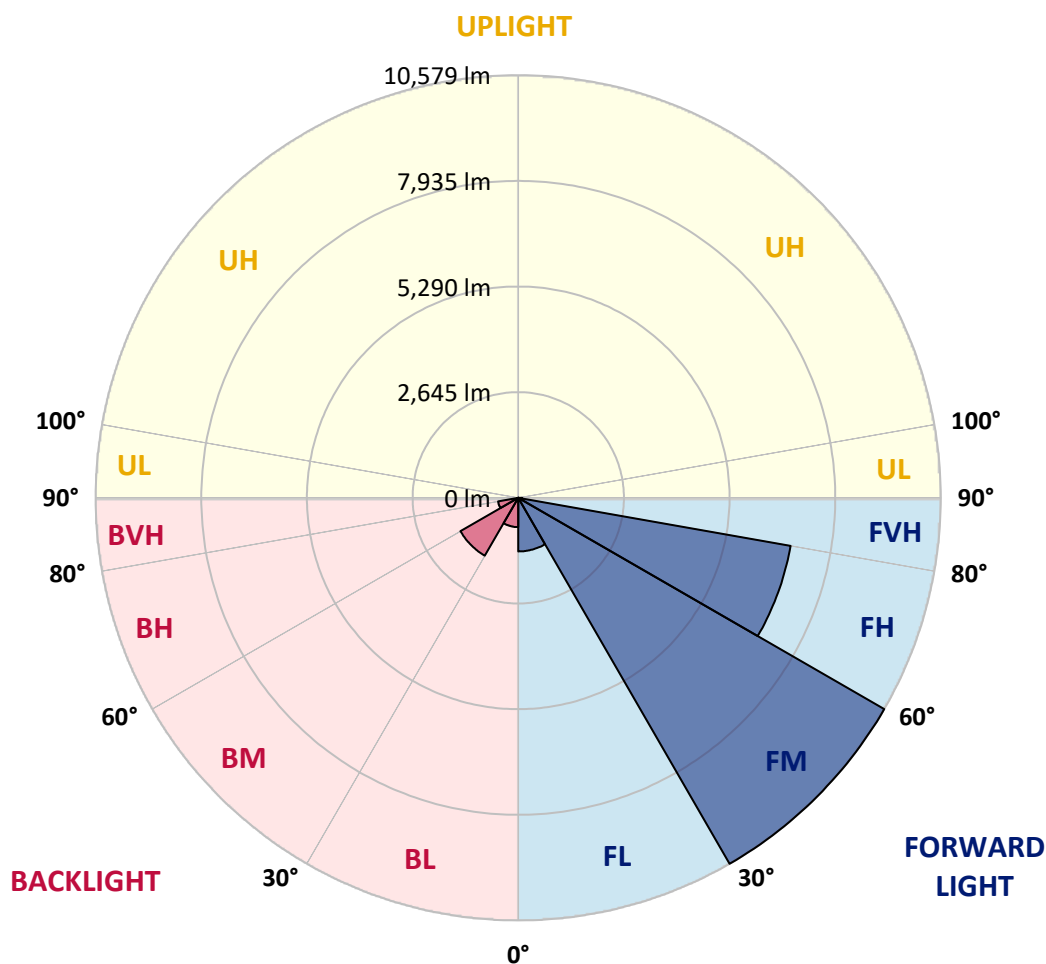
CATALOG NUMBER: NAV-SB6A-735-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1342.9	6.1			
FM	(30°-60°)	10579.4	48.4			
FH	(60°-80°)	6922.7	31.7			G3/7500
FVH	(80°-90°)	98.0	0.4			G1/100
BL	(0°-30°)	734.2	3.4	B2/1000		
BM	(30°-60°)	1671.8	7.6	B2/2500		
BH	(60°-80°)	513.3	2.3	B2/1000		G2/1000
BVH	(80°-90°)	5.0	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-G3

Type III Short



REPORT NUMBER: P969843

CATALOG NUMBER: NAV-SB6A-735-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2543.4	2543.4	2543.4	2543.4	2543.4	2543.4	2543.4	2543.4	2543.4	2543.4	2543.4
2.5°	2534.6	2552.1	2547.8	2543.4	2541.9	2544.9	2546.3	2544.9	2544.9	2544.9	2546.3
5°	2486.2	2500.9	2500.9	2511.1	2525.8	2543.4	2556.6	2559.5	2562.5	2566.8	2565.4
7.5°	2393.9	2405.6	2414.4	2448.1	2484.8	2531.6	2571.2	2591.8	2594.7	2610.9	2616.7
10°	2330.8	2345.5	2360.2	2395.3	2448.1	2518.5	2585.9	2635.8	2643.1	2681.2	2698.8
12.5°	2327.9	2342.5	2361.6	2399.7	2461.3	2536.1	2618.2	2690.0	2703.2	2758.9	2795.6
15°	2358.7	2376.3	2393.9	2440.8	2506.7	2597.7	2685.6	2775.0	2788.2	2867.3	2907.0
17.5°	2421.8	2445.1	2458.4	2505.3	2575.6	2676.8	2792.6	2895.2	2907.0	2999.4	3049.2
20°	2546.3	2574.2	2578.6	2616.7	2685.6	2794.0	2931.9	3059.4	3074.1	3179.7	3235.3
22.5°	2804.3	2844.0	2808.7	2827.8	2889.4	2997.8	3147.4	3308.6	3329.1	3449.3	3499.1
25°	3258.8	3314.4	3223.6	3191.3	3217.7	3330.6	3518.2	3722.0	3745.5	3842.2	3867.1
27.5°	4151.6	4079.7	3941.9	3807.1	3727.9	3792.4	4003.4	4255.6	4284.9	4378.8	4349.4
30°	5132.3	5069.2	4883.0	4584.0	4396.3	4386.1	4581.0	4862.5	4896.2	4985.6	4896.2
32.5°	6114.4	6054.4	5852.0	5484.1	5158.6	4997.4	5132.3	5444.5	5462.1	5519.2	5387.3
35°	7080.5	7018.9	6816.6	6439.9	6039.6	5673.2	5646.8	5998.6	6004.4	6064.6	5868.1
37.5°	8052.4	8001.0	7785.6	7416.2	7021.9	6516.1	6271.3	6523.4	6530.8	6589.4	6385.6
40°	8745.8	8767.7	8619.7	8333.9	7995.2	7442.5	6971.9	7081.9	7038.0	7136.2	7014.5
42.5°	9340.9	9384.9	9256.0	9112.2	8915.9	8429.1	7839.8	7820.7	7750.4	7803.2	7677.1
45°	9855.5	9892.2	9776.3	9742.6	9738.2	9396.7	8788.2	8674.0	8575.8	8565.5	8414.4
47.5°	10044.6	10115.0	10164.8	10277.7	10497.5	10353.9	9769.0	9591.6	9481.7	9401.1	9162.1
50°	10116.4	10191.2	10361.2	10689.6	11210.0	11271.6	10745.3	10545.9	10411.1	10264.5	9912.7
52.5°	10019.7	10153.0	10381.7	10934.4	11689.4	12007.5	11682.0	11507.6	11353.7	11114.7	10592.9
55°	9449.5	9582.8	10050.4	10931.5	11928.3	12523.4	12567.5	12489.8	12316.8	11940.0	11142.6
57.5°	8247.4	8445.3	9185.5	10559.1	11923.9	12967.7	13435.3	13491.0	13297.5	12758.1	11575.0
60°	6582.0	6850.3	7753.3	9733.8	11556.0	13208.0	14196.1	14474.6	14269.4	13564.3	11925.4
62.5°	4592.8	4903.6	5758.2	8440.9	10714.5	13035.1	14751.7	15266.2	15110.9	14285.5	12060.3
65°	2801.4	2901.1	3590.1	6642.2	9283.7	12311.0	14923.3	15694.3	15643.0	14726.8	11860.9
67.5°	1866.1	1949.7	2147.6	4554.7	7206.6	10864.1	14512.8	15619.6	15634.2	14654.9	11130.9
70°	1124.3	1196.2	1325.2	2648.9	4670.5	8599.1	13241.8	14666.7	14751.7	13694.8	9747.0
72.5°	463.2	511.6	628.8	1200.6	2418.8	5457.7	10544.5	12592.4	12790.3	11515.0	7480.7
75°	262.4	287.3	369.4	602.5	1049.6	2543.4	6387.1	8939.2	9231.0	7936.6	4500.5
77.5°	174.5	186.1	238.9	389.9	590.8	867.9	2729.6	4657.3	5214.4	4334.7	1948.2
80°	117.3	127.5	164.2	261.0	384.1	372.4	869.3	1725.4	2122.7	1489.4	475.0
82.5°	79.1	80.7	117.3	171.5	243.3	180.3	256.6	536.5	674.3	431.0	180.3
85°	45.4	44.0	86.5	99.7	108.4	74.7	77.7	161.2	211.0	181.7	102.6
87.5°	5.8	8.8	33.7	26.3	14.7	16.1	16.1	27.9	41.0	44.0	22.0
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: P969843

CATALOG NUMBER: NAV-SB6A-735-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2543.4	2543.4	2543.4	2543.4	2543.4	2543.4	2543.4	2543.4	2543.4	2543.4	2543.4
2.5°	2546.3	2544.9	2540.5	2536.1	2525.8	2520.0	2522.8	2520.0	2518.5	2520.0	2525.8
5°	2565.4	2561.0	2549.3	2534.6	2514.1	2489.1	2473.0	2449.5	2427.6	2414.4	2417.4
7.5°	2616.7	2612.3	2596.2	2555.1	2489.1	2385.1	2289.7	2206.2	2143.2	2106.6	2108.0
10°	2698.8	2691.4	2666.5	2575.6	2402.7	2175.5	1986.3	1829.5	1726.9	1678.5	1674.1
12.5°	2795.6	2786.8	2742.8	2556.6	2238.5	1883.7	1622.8	1448.3	1353.1	1310.6	1306.2
15°	2909.9	2898.2	2811.7	2465.7	1999.6	1561.2	1322.2	1191.8	1130.3	1092.1	1093.6
17.5°	3052.0	3031.5	2862.9	2329.4	1740.0	1315.0	1137.5	1039.4	985.1	948.4	945.6
20°	3236.7	3203.0	2904.0	2166.6	1501.1	1159.6	1013.0	930.9	889.8	857.6	851.7
22.5°	3494.8	3446.5	2953.8	1990.8	1332.5	1052.6	920.7	860.5	826.8	790.2	784.2
25°	3814.3	3757.2	3015.4	1828.0	1216.8	960.2	853.2	803.3	763.7	721.2	716.9
27.5°	4261.4	4158.8	3088.7	1694.6	1117.0	881.0	791.6	735.9	690.4	655.3	647.9
30°	4759.9	4591.3	3153.2	1614.0	1026.1	807.7	710.9	655.3	612.7	587.8	583.4
32.5°	5231.9	5003.2	3195.7	1578.8	944.0	724.2	623.0	562.9	530.6	523.4	527.8
35°	5677.6	5375.6	3191.3	1545.1	870.7	640.6	536.5	475.0	450.1	454.5	454.5
37.5°	6190.7	5772.9	3160.6	1492.3	810.7	564.4	461.8	407.5	385.5	387.0	392.9
40°	6787.2	6231.7	3141.5	1392.7	744.7	494.0	400.2	356.2	340.1	334.3	332.8
42.5°	7423.5	6675.8	3144.4	1279.7	662.6	431.0	357.7	321.0	306.4	302.0	300.5
45°	8062.6	7099.6	3148.8	1162.5	576.2	382.6	326.9	296.1	287.3	281.5	281.5
47.5°	8663.7	7460.2	3066.7	1036.4	491.1	345.9	302.0	281.5	274.1	266.8	266.8
50°	9223.7	7700.5	2868.9	889.8	423.6	316.6	282.9	268.2	261.0	253.6	253.6
52.5°	9659.1	7738.6	2541.9	738.8	376.8	294.7	271.2	258.0	249.2	241.9	240.4
55°	9852.6	7499.7	2077.3	598.1	340.1	275.6	259.4	246.3	236.1	228.7	227.2
57.5°	9802.7	6997.0	1619.9	480.8	304.9	256.6	244.8	236.1	224.3	212.6	211.0
60°	9557.9	6324.0	1221.1	400.2	272.6	236.1	228.7	221.4	205.2	187.7	184.7
62.5°	9134.3	5478.2	870.7	331.3	237.5	212.6	209.6	203.8	180.3	148.0	145.1
65°	8486.3	4450.5	586.4	275.6	203.8	186.1	187.7	177.4	146.6	110.0	107.0
67.5°	7539.3	3254.4	375.3	225.7	170.0	155.4	156.8	151.0	124.6	93.8	89.4
70°	6332.9	2155.0	244.8	171.5	136.3	120.2	129.0	130.5	105.6	76.3	73.3
72.5°	4642.6	1272.4	171.5	127.5	99.7	83.5	105.6	108.4	85.1	57.2	54.2
75°	2646.0	603.9	129.0	92.4	61.6	58.6	82.1	82.1	58.6	38.1	35.2
77.5°	1111.2	252.2	90.9	60.1	35.2	33.7	55.7	51.4	29.3	17.6	17.6
80°	321.0	112.9	48.4	29.3	14.7	13.2	22.0	16.1	7.4	3.0	3.0
82.5°	126.1	49.8	19.1	11.7	5.8	5.8	3.0	0.0	0.0	0.0	0.0
85°	74.7	20.5	8.8	4.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.1	4.4	3.0	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)