

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: P885128

Luminaire Tested: **NAV-SB6B-735-U-T3-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885128
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-735-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26805 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

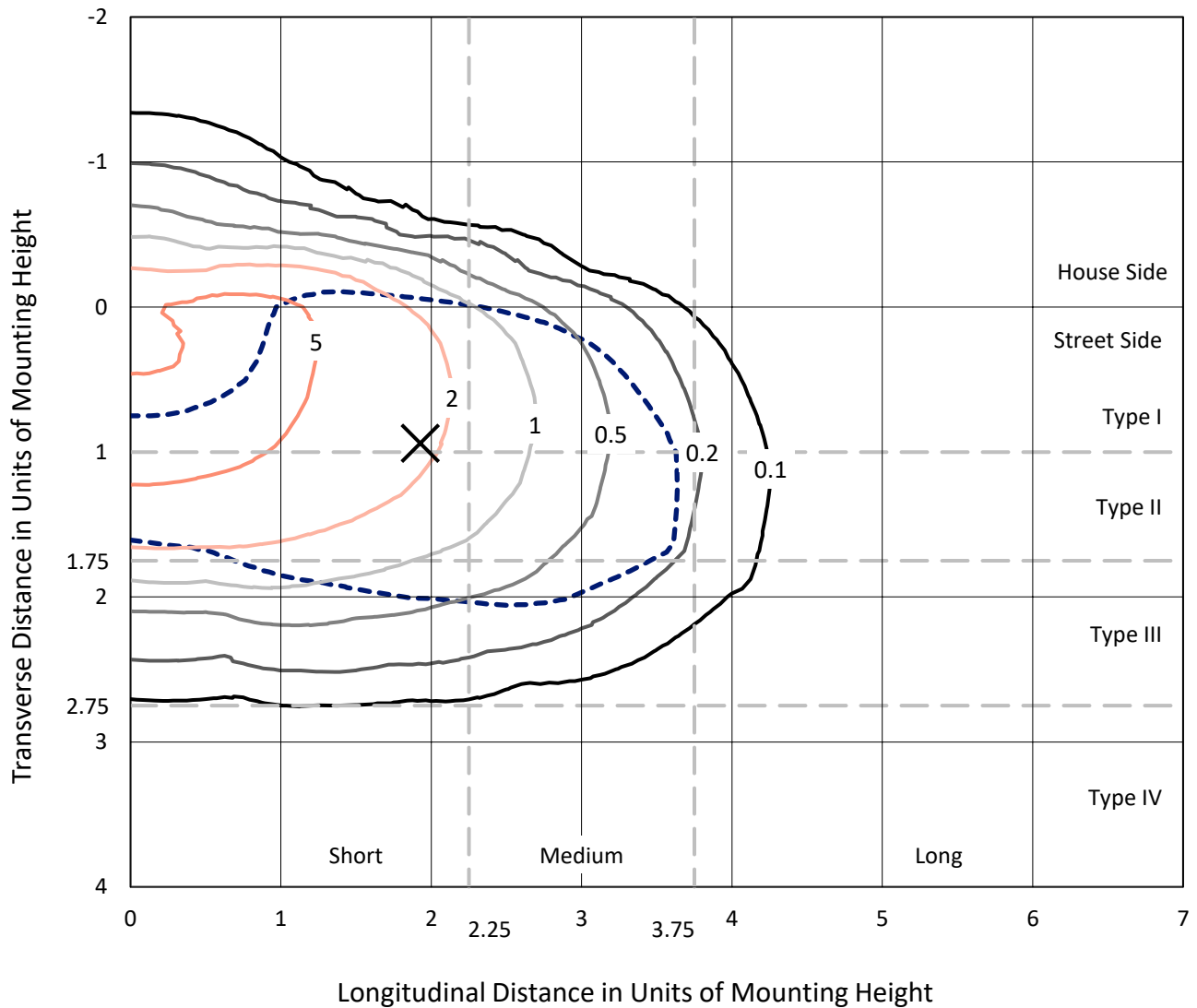
Input Watts (W): 220.4
Input Voltage (V): 120.0
Input Current (Ain): 1.838
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P885128
 CATALOG NUMBER: NAV-SB6B-735-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

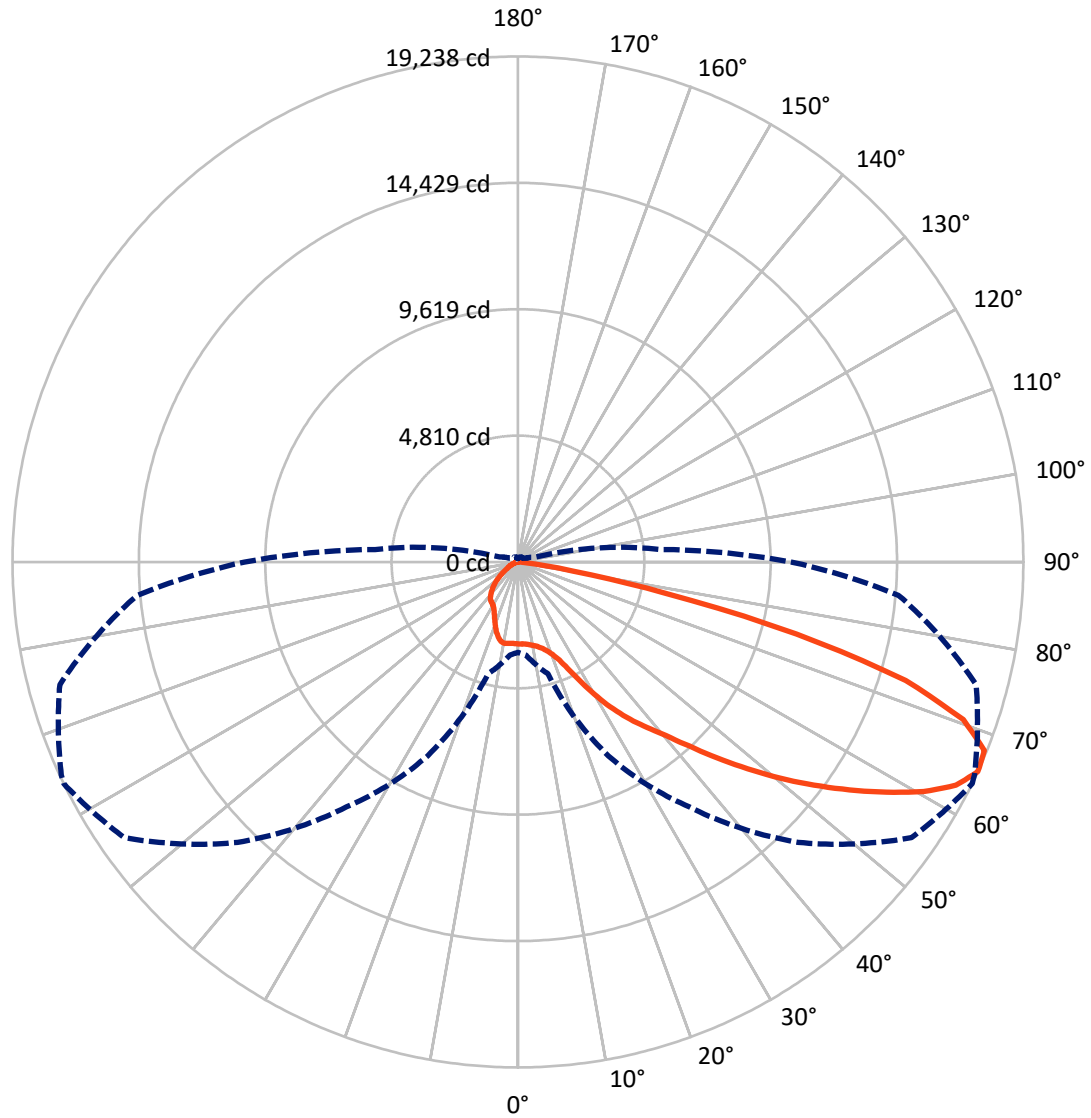
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type III - Short - N/A

REPORT NUMBER: P885128
CATALOG NUMBER: NAV-SB6B-735-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P885128

CATALOG NUMBER: NAV-SB6B-735-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3584.6	0.0	3584.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	23220.4	0.0	23220.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	26805.0	0.0	26805.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.6	1.1
10°-20°	780.2	2.9
20°-30°	1478.3	5.5
30°-40°	2991.5	11.2
40°-50°	5096.0	19.0
50°-60°	6930.1	25.9
60°-70°	6507.7	24.3
70°-80°	2607.3	9.7
80°-90°	126.3	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°	26805.0	100.0
0°-180°	26805.0	100.0

Coefficient of Utilization



REPORT NUMBER: P885128

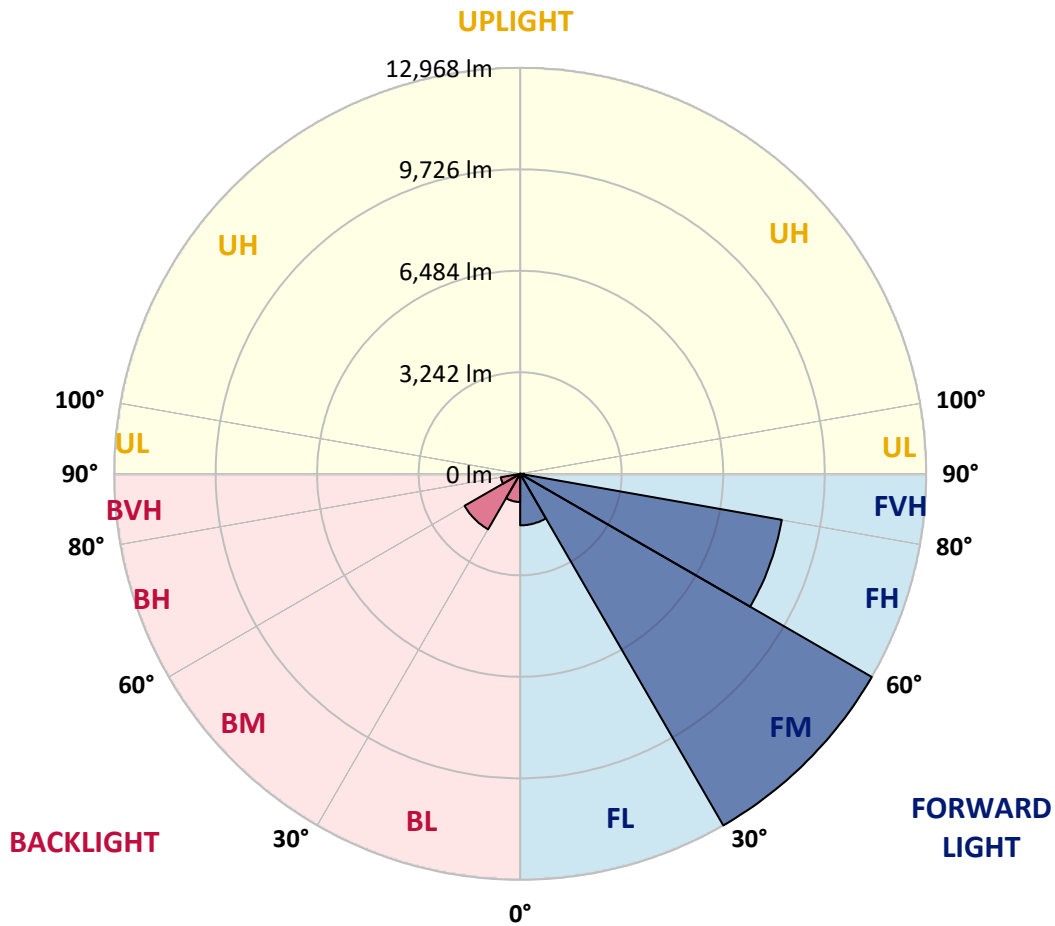
CATALOG NUMBER: NAV-SB6B-735-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1646.1	6.1			
FM (30°-60°)	12968.2	48.4			
FH (60°-80°)	8485.9	31.7			G4/12000
FVH (80°-90°)	120.1	0.4			G2/225
BL (0°-30°)	900.0	3.4	B2/1000		
BM (30°-60°)	2049.3	7.6	B2/2500		
BH (60°-80°)	629.2	2.3	B2/1000		G2/1000
BVH (80°-90°)	6.2	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



REPORT NUMBER: P885128

CATALOG NUMBER: NAV-SB6B-735-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3117.7	3117.7	3117.7	3117.7	3117.7	3117.7	3117.7	3117.7	3117.7	3117.7	3117.7
2.5°	3106.9	3128.5	3123.1	3117.7	3115.9	3119.5	3121.3	3119.5	3119.5	3119.5	3121.3
5°	3047.6	3065.6	3065.6	3078.2	3096.1	3117.7	3133.9	3137.5	3141.1	3146.5	3144.7
7.5°	2934.4	2948.8	2959.6	3000.9	3045.8	3103.3	3151.8	3177.0	3180.6	3200.4	3207.5
10°	2857.1	2875.1	2893.1	2936.2	3000.9	3087.2	3169.8	3230.9	3239.9	3286.6	3308.2
12.5°	2853.5	2871.5	2894.9	2941.6	3017.1	3108.7	3209.3	3297.4	3313.6	3381.9	3426.8
15°	2891.3	2912.8	2934.4	2991.9	3072.8	3184.2	3292.0	3401.6	3417.8	3514.8	3563.3
17.5°	2968.6	2997.3	3013.5	3071.0	3157.2	3281.2	3423.2	3549.0	3563.3	3676.5	3737.6
20°	3121.3	3155.4	3160.8	3207.5	3292.0	3425.0	3593.9	3750.2	3768.2	3897.6	3965.9
22.5°	3437.6	3486.1	3442.9	3466.3	3541.8	3674.8	3858.0	4055.7	4080.9	4228.2	4289.3
25°	3994.6	4062.9	3951.5	3911.9	3944.3	4082.7	4312.7	4562.4	4591.2	4709.8	4740.3
27.5°	5088.9	5000.9	4832.0	4666.7	4569.6	4648.7	4907.5	5216.5	5252.5	5367.5	5331.5
30°	6291.1	6213.8	5985.6	5619.0	5389.0	5376.5	5615.5	5960.5	6001.8	6111.4	6001.8
32.5°	7495.1	7421.4	7173.4	6722.4	6323.4	6125.8	6291.1	6673.9	6695.4	6765.5	6603.8
35°	8679.2	8603.8	8355.8	7894.0	7403.4	6954.2	6921.8	7353.1	7360.3	7434.0	7193.2
37.5°	9870.6	9807.7	9543.6	9090.7	8607.4	7987.4	7687.3	7996.4	8005.4	8077.3	7827.5
40°	10720.6	10747.5	10566.0	10215.6	9800.5	9123.1	8546.3	8681.0	8627.1	8747.5	8598.4
42.5°	11450.1	11504.0	11345.9	11169.8	10929.0	10332.4	9610.1	9586.7	9500.4	9565.1	9410.6
45°	12080.9	12125.8	11983.8	11942.5	11937.1	11518.4	10772.7	10632.5	10512.1	10499.6	10314.5
47.5°	12312.7	12398.9	12460.0	12598.4	12867.9	12691.8	11974.8	11757.4	11622.6	11523.8	11230.9
50°	12400.7	12492.4	12700.8	13103.3	13741.2	13816.7	13171.6	12927.2	12761.9	12582.2	12150.9
52.5°	12282.1	12445.6	12726.0	13403.4	14328.8	14718.8	14319.9	14106.0	13917.3	13624.4	12984.7
55°	11583.1	11746.6	12319.9	13399.8	14621.7	15351.3	15405.2	15310.0	15097.9	14636.1	13658.6
57.5°	10109.6	10352.2	11259.7	12943.4	14616.4	15895.8	16469.0	16537.3	16300.1	15638.8	14188.7
60°	8068.3	8397.1	9504.0	11931.7	14165.3	16190.5	17401.6	17743.0	17491.5	16627.1	14618.1
62.5°	5629.8	6010.8	7058.4	10346.8	13133.9	15978.4	18082.7	18713.4	18522.9	17511.2	14783.5
65°	3434.0	3556.2	4400.7	8142.0	11380.1	15090.7	18292.9	19238.1	19175.2	18052.1	14539.1
67.5°	2287.5	2389.9	2632.5	5583.1	8833.8	13317.2	17789.8	19146.5	19164.4	17964.1	13644.2
70°	1378.3	1466.3	1624.4	3247.1	5725.1	10540.9	16231.8	17978.4	18082.7	16787.1	11947.9
72.5°	567.8	627.1	770.9	1471.7	2965.0	6690.0	12925.4	15435.8	15678.3	14115.0	9169.8
75°	321.7	352.2	452.8	738.5	1286.6	3117.7	7829.3	10957.8	11315.4	9728.7	5516.6
77.5°	213.8	228.2	292.9	478.0	724.2	1063.8	3345.9	5708.9	6391.7	5313.6	2388.1
80°	143.8	156.3	201.3	319.9	470.8	456.4	1065.6	2115.0	2602.0	1825.7	582.2
82.5°	97.0	98.8	143.8	210.2	298.3	221.0	314.5	657.7	826.6	528.3	221.0
85°	55.7	53.9	106.0	122.2	133.0	91.6	95.2	197.7	258.8	222.8	125.8
87.5°	7.2	10.8	41.3	32.3	18.0	19.8	19.8	34.1	50.3	53.9	27.0
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: P885128
 CATALOG NUMBER: NAV-SB6B-735-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3117.7	3117.7	3117.7	3117.7	3117.7	3117.7	3117.7	3117.7	3117.7	3117.7	3117.7
2.5°	3121.3	3119.5	3114.1	3108.7	3096.1	3088.9	3092.5	3088.9	3087.2	3088.9	3096.1
5°	3144.7	3139.3	3124.9	3106.9	3081.8	3051.2	3031.4	3002.7	2975.7	2959.6	2963.2
7.5°	3207.5	3202.2	3182.4	3132.1	3051.2	2923.6	2806.8	2704.4	2627.1	2582.2	2584.0
10°	3308.2	3299.2	3268.6	3157.2	2945.2	2666.7	2434.9	2242.6	2116.8	2057.5	2052.1
12.5°	3426.8	3416.0	3362.1	3133.9	2743.9	2309.1	1989.2	1775.4	1658.6	1606.5	1601.1
15°	3566.9	3552.6	3446.5	3022.5	2451.0	1913.7	1620.8	1460.9	1385.4	1338.7	1340.5
17.5°	3741.2	3716.1	3509.4	2855.3	2133.0	1611.9	1394.4	1274.0	1207.5	1162.6	1159.0
20°	3967.7	3926.3	3559.7	2655.9	1840.1	1421.4	1241.7	1141.1	1090.7	1051.2	1044.0
22.5°	4283.9	4224.6	3620.8	2440.3	1633.4	1290.2	1128.5	1054.8	1013.5	968.6	961.4
25°	4675.7	4605.6	3696.3	2240.8	1491.5	1177.0	1045.8	984.7	936.2	884.1	878.7
27.5°	5223.7	5097.9	3786.2	2077.3	1369.3	1080.0	970.4	902.1	846.4	803.2	794.2
30°	5834.7	5628.0	3865.2	1978.4	1257.9	990.1	871.5	803.2	751.1	720.6	715.2
32.5°	6413.3	6133.0	3917.3	1935.3	1157.2	887.7	763.7	690.0	650.5	641.5	646.9
35°	6959.6	6589.4	3911.9	1894.0	1067.4	785.3	657.7	582.2	551.7	557.1	557.1
37.5°	7588.5	7076.4	3874.2	1829.3	993.7	691.8	566.0	499.6	472.6	474.4	481.6
40°	8319.9	7638.8	3850.9	1707.1	912.8	605.6	490.6	436.7	416.9	409.7	407.9
42.5°	9099.7	8183.3	3854.4	1568.7	812.2	528.3	438.5	393.5	375.6	370.2	368.4
45°	9883.2	8702.6	3859.8	1425.0	706.2	469.0	400.7	363.0	352.2	345.0	345.0
47.5°	10619.9	9144.7	3759.2	1270.4	602.0	424.1	370.2	345.0	336.0	327.0	327.0
50°	11306.4	9439.4	3516.6	1090.7	519.3	388.1	346.8	328.8	319.9	310.9	310.9
52.5°	11840.1	9486.1	3115.9	905.7	461.8	361.2	332.4	316.3	305.5	296.5	294.7
55°	12077.3	9193.2	2546.3	733.2	416.9	337.8	318.1	301.9	289.3	280.3	278.5
57.5°	12016.2	8576.8	1985.6	589.4	373.8	314.5	300.1	289.3	274.9	260.6	258.8
60°	11716.1	7752.0	1496.9	490.6	334.2	289.3	280.3	271.3	251.6	230.0	226.4
62.5°	11196.8	6715.2	1067.4	406.1	291.1	260.6	257.0	249.8	221.0	181.5	177.9
65°	10402.5	5455.5	718.8	337.8	249.8	228.2	230.0	217.4	179.7	134.8	131.2
67.5°	9241.7	3989.2	460.0	276.7	208.4	190.5	192.3	185.1	152.7	115.0	109.6
70°	7762.8	2641.5	300.1	210.2	167.1	147.3	158.1	159.9	129.4	93.4	89.8
72.5°	5690.9	1559.7	210.2	156.3	122.2	102.4	129.4	133.0	104.2	70.1	66.5
75°	3243.5	740.3	158.1	113.2	75.5	71.9	100.6	100.6	71.9	46.7	43.1
77.5°	1362.1	309.1	111.4	73.7	43.1	41.3	68.3	62.9	35.9	21.6	21.6
80°	393.5	138.4	59.3	35.9	18.0	16.2	27.0	19.8	9.0	3.6	3.6
82.5°	154.5	61.1	23.4	14.4	7.2	7.2	3.6	0.0	0.0	0.0	0.0
85°	91.6	25.2	10.8	5.4	1.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	23.4	5.4	3.6	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)