

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: P885338

Luminaire Tested: **NAV-SB6C-827-U-T3-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885338  
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-SB6C-827-U-T3-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

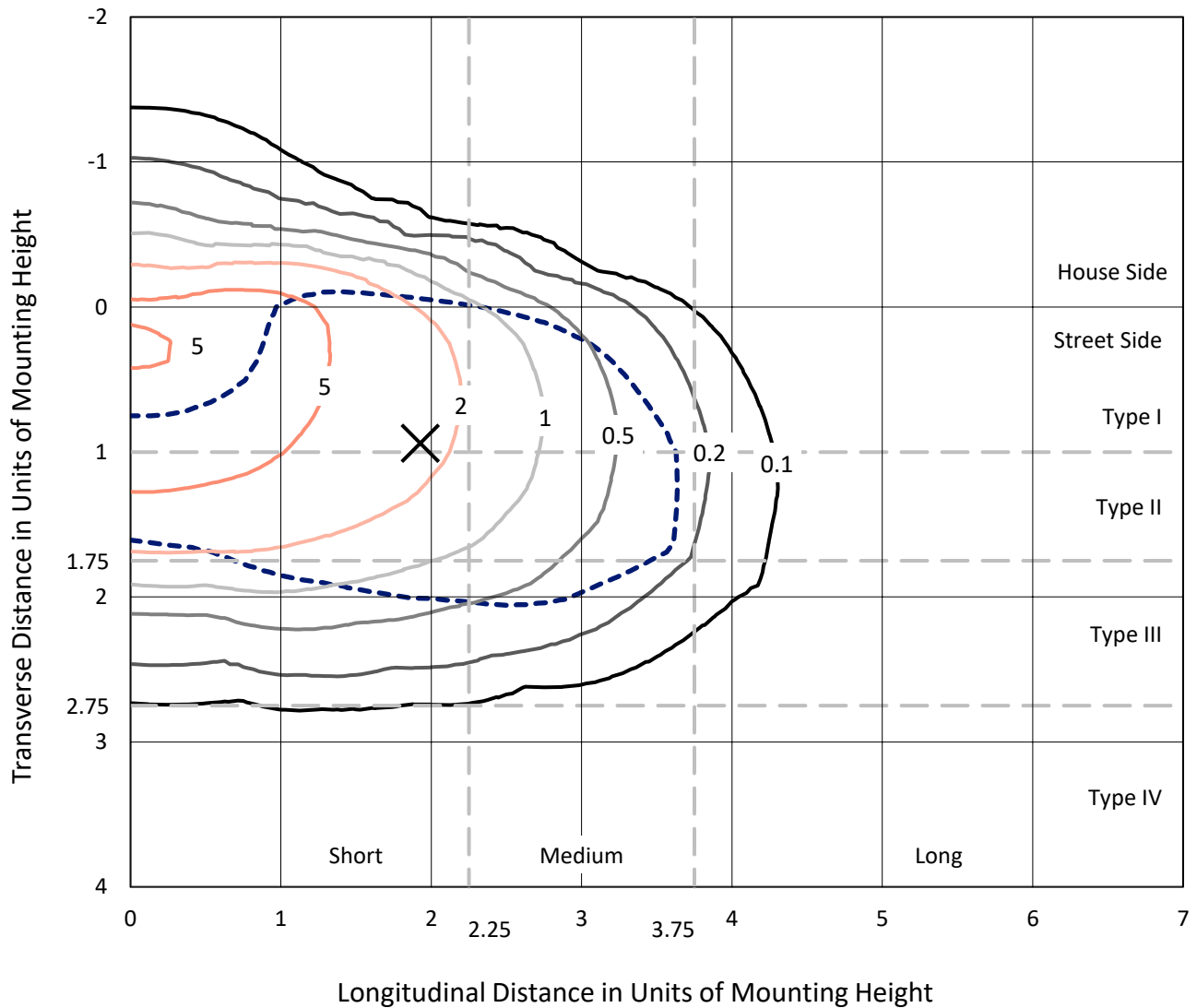
Lumens per Lamp: N/A  
Luminaire Lumens: 28966 lumens  
Efficiency: N/A  
Efficacy: 96.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 300.9  
Input Voltage (V): 120.0  
Input Current (Ain): 2.518  
Voltage Rise (V): NR  
Power Factor: 0.997  
Total Harmonic Distortion (THDi): 6.297  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P885338  
 CATALOG NUMBER: NAV-SB6C-827-U-T3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

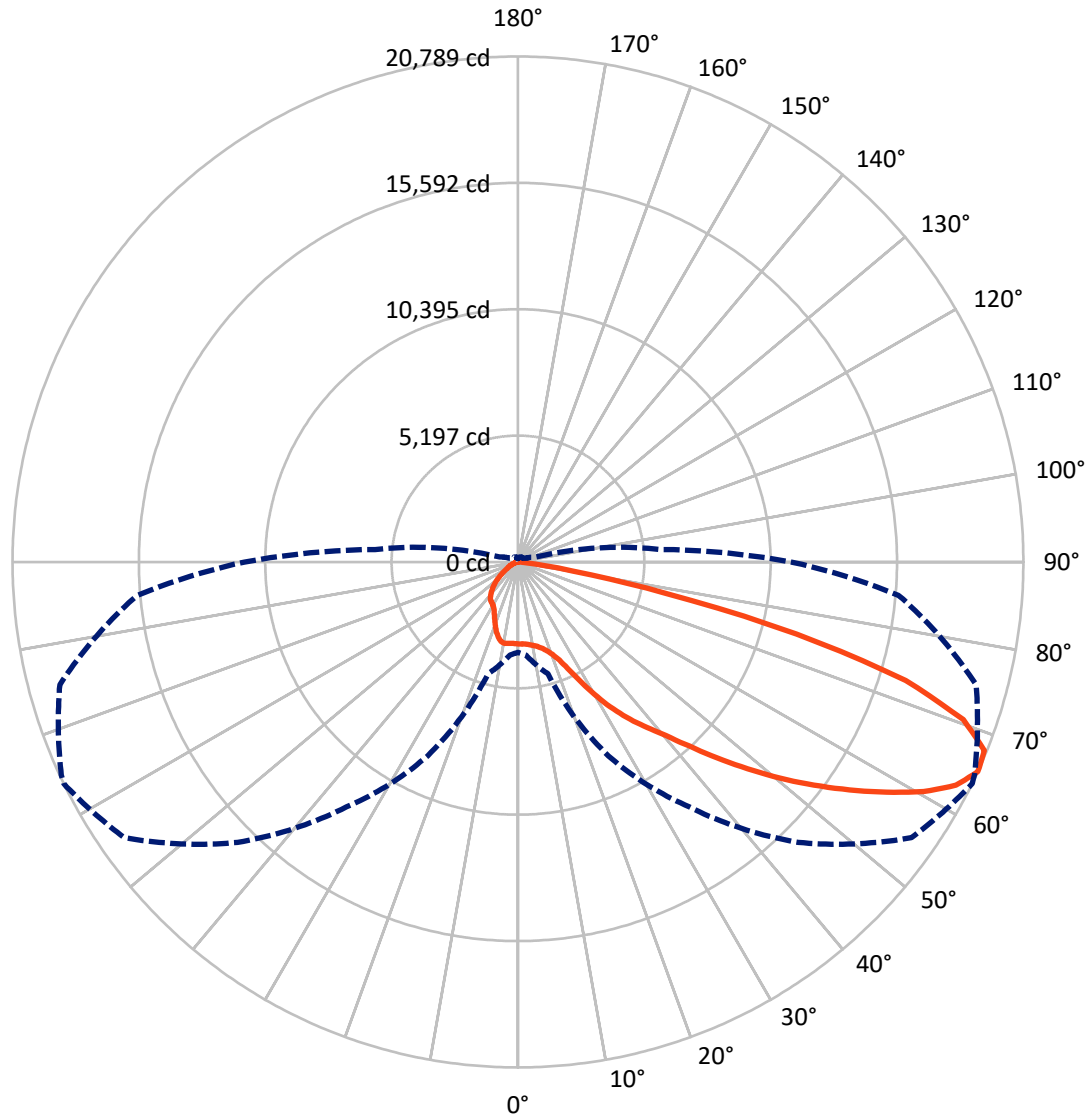
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc  
 Type III - Short - N/A

REPORT NUMBER: P885338  
CATALOG NUMBER: NAV-SB6C-827-U-T3-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P885338

CATALOG NUMBER: NAV-SB6C-827-U-T3-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3873.6	0.0	3873.6
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	25092.4	0.0	25092.4
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	28966.0	0.0	28966.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	310.8	1.1
10°-20°	843.1	2.9
20°-30°	1597.5	5.5
30°-40°	3232.6	11.2
40°-50°	5506.8	19.0
50°-60°	7488.8	25.9
60°-70°	7032.4	24.3
70°-80°	2817.5	9.7
80°-90°	136.5	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°	28966.0	100.0
0°-180°	28966.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P885338

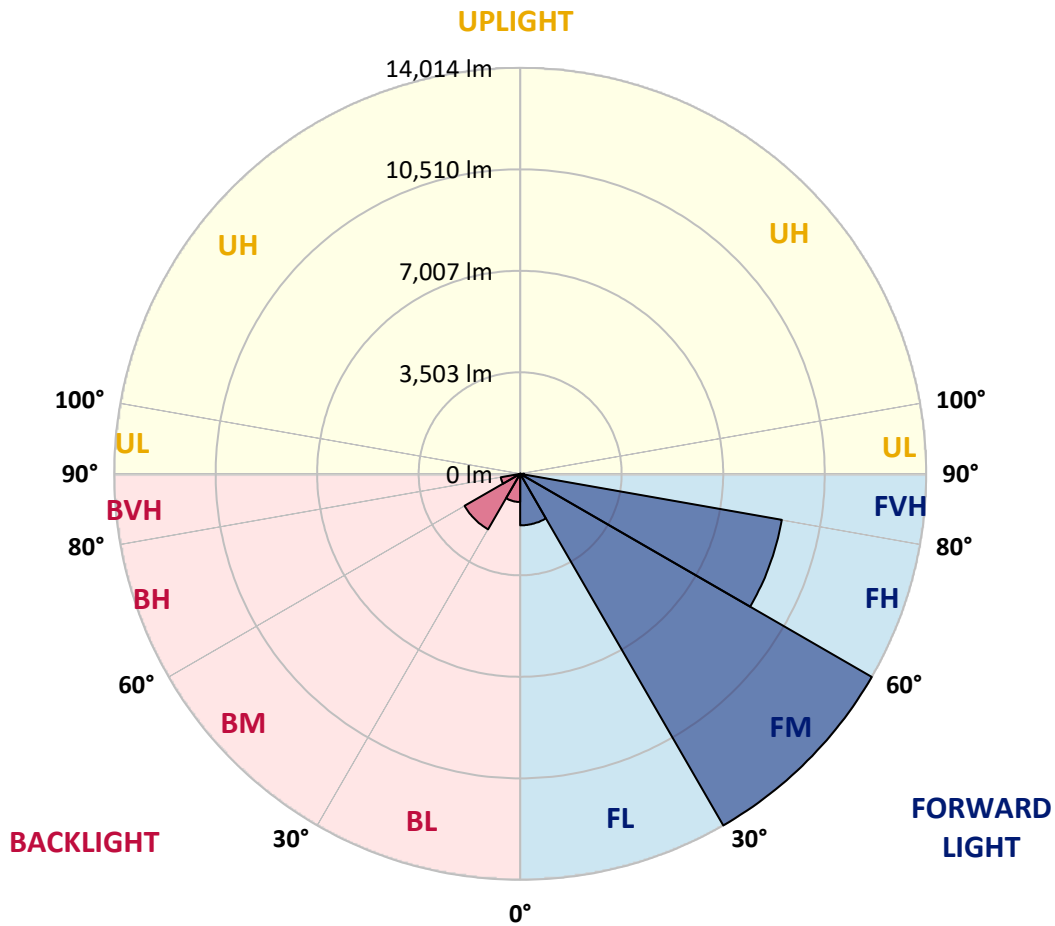
CATALOG NUMBER: NAV-SB6C-827-U-T3-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1778.8	6.1			
FM (30°-60°)	14013.7	48.4			
FH (60°-80°)	9170.0	31.7			G4/12000
FVH (80°-90°)	129.8	0.4			G2/225
BL (0°-30°)	972.6	3.4	B2/1000		
BM (30°-60°)	2214.5	7.6	B2/2500		
BH (60°-80°)	679.9	2.3	B2/1000		G2/1000
BVH (80°-90°)	6.7	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: P885338

CATALOG NUMBER: NAV-SB6C-827-U-T3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3369.0	3369.0	3369.0	3369.0	3369.0	3369.0	3369.0	3369.0	3369.0	3369.0	3369.0
2.5°	3357.4	3380.7	3374.9	3369.0	3367.1	3371.0	3372.9	3371.0	3371.0	3371.0	3372.9
5°	3293.3	3312.7	3312.7	3326.3	3345.7	3369.0	3386.5	3390.4	3394.3	3400.1	3398.2
7.5°	3171.0	3186.5	3198.2	3242.8	3291.4	3353.5	3405.9	3433.1	3437.0	3458.4	3466.1
10°	3087.5	3106.9	3126.3	3172.9	3242.8	3336.0	3425.4	3491.4	3501.1	3551.6	3574.9
12.5°	3083.6	3103.0	3128.3	3178.7	3260.3	3359.3	3468.1	3563.2	3580.7	3654.5	3703.0
15°	3124.4	3147.7	3171.0	3233.1	3320.5	3440.9	3557.4	3675.9	3693.3	3798.2	3850.6
17.5°	3207.9	3238.9	3256.4	3318.6	3411.8	3545.8	3699.2	3835.1	3850.6	3973.0	4039.0
20°	3372.9	3409.8	3415.7	3466.1	3557.4	3701.1	3883.6	4052.6	4072.0	4211.8	4285.6
22.5°	3714.7	3767.1	3720.5	3745.8	3827.3	3971.0	4169.1	4382.7	4409.9	4569.1	4635.1
25°	4316.7	4390.4	4270.0	4227.3	4262.3	4411.8	4660.4	4930.3	4961.3	5089.5	5122.5
27.5°	5499.2	5404.1	5221.5	5042.9	4938.0	5023.5	5303.1	5637.1	5675.9	5800.2	5761.4
30°	6798.3	6714.8	6468.2	6072.1	5823.5	5809.9	6068.2	6441.0	6485.7	6604.1	6485.7
32.5°	8099.3	8019.7	7751.7	7264.3	6833.2	6619.6	6798.3	7211.9	7235.2	7310.9	7136.2
35°	9379.0	9297.4	9029.4	8530.4	8000.3	7514.8	7479.9	7945.9	7953.7	8033.3	7773.1
37.5°	10666.4	10598.4	10313.0	9823.6	9301.3	8631.4	8307.1	8641.1	8650.8	8728.5	8458.5
40°	11584.9	11614.0	11417.9	11039.2	10590.7	9858.6	9235.3	9380.9	9322.6	9452.7	9291.6
42.5°	12373.2	12431.5	12260.6	12070.3	11810.1	11165.4	10384.8	10359.6	10266.4	10336.3	10169.3
45°	13054.8	13103.4	12950.0	12905.3	12899.5	12447.0	11641.2	11489.7	11359.6	11346.0	11146.0
47.5°	13305.3	13398.5	13464.5	13614.1	13905.3	13715.0	12940.2	12705.3	12559.7	12452.9	12136.3
50°	13400.5	13499.5	13724.7	14159.7	14849.0	14930.6	14233.5	13969.4	13790.8	13596.6	13130.5
52.5°	13272.3	13449.0	13751.9	14484.0	15484.0	15905.4	15474.3	15243.2	15039.3	14722.8	14031.5
55°	12516.9	12693.6	13313.1	14480.1	15800.5	16588.9	16647.2	16544.3	16315.1	15816.1	14759.7
57.5°	10924.6	11186.8	12167.4	13986.9	15794.7	17177.3	17796.7	17870.5	17614.2	16899.6	15332.6
60°	8718.7	9074.1	10270.3	12893.6	15307.3	17495.7	18804.5	19173.5	18901.6	17967.6	15796.7
62.5°	6083.7	6495.4	7627.4	11181.0	14192.7	17266.6	19540.5	20222.0	20016.2	18923.0	15975.3
65°	3710.8	3842.8	4755.5	8798.4	12297.5	16307.4	19767.7	20789.1	20721.1	19507.5	15711.2
67.5°	2471.9	2582.6	2844.8	6033.2	9546.0	14390.8	19224.0	20690.0	20709.4	19412.3	14744.2
70°	1489.4	1584.5	1755.4	3508.9	6186.6	11390.7	17540.4	19427.8	19540.5	18140.4	12911.1
72.5°	613.6	677.7	833.0	1590.3	3204.0	7229.4	13967.5	16680.2	16942.3	15252.9	9909.1
75°	347.6	380.6	489.3	798.1	1390.3	3369.0	8460.5	11841.2	12227.6	10513.0	5961.4
77.5°	231.1	246.6	316.5	516.5	782.6	1149.6	3615.7	6169.1	6907.0	5741.9	2580.7
80°	155.3	168.9	217.5	345.6	508.8	493.2	1151.5	2285.5	2811.7	1972.9	629.1
82.5°	104.9	106.8	155.3	227.2	322.3	238.8	339.8	710.7	893.2	570.9	238.8
85°	60.2	58.3	114.6	132.0	143.7	99.0	102.9	213.6	279.6	240.8	135.9
87.5°	7.8	11.7	44.7	35.0	19.4	21.4	21.4	36.9	54.4	58.3	29.1
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: P885338

CATALOG NUMBER: NAV-SB6C-827-U-T3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3369.0	3369.0	3369.0	3369.0	3369.0	3369.0	3369.0	3369.0	3369.0	3369.0	3369.0
2.5°	3372.9	3371.0	3365.2	3359.3	3345.7	3338.0	3341.9	3338.0	3336.0	3338.0	3345.7
5°	3398.2	3392.3	3376.8	3357.4	3330.2	3297.2	3275.8	3244.8	3215.6	3198.2	3202.1
7.5°	3466.1	3460.3	3439.0	3384.6	3297.2	3159.3	3033.1	2922.4	2838.9	2790.4	2792.3
10°	3574.9	3565.2	3532.2	3411.8	3182.6	2881.7	2631.2	2423.4	2287.5	2223.4	2217.6
12.5°	3703.0	3691.4	3633.1	3386.5	2965.1	2495.2	2149.6	1918.5	1792.3	1736.0	1730.2
15°	3854.5	3839.0	3724.4	3266.1	2648.6	2068.0	1751.5	1578.7	1497.1	1446.7	1448.6
17.5°	4042.9	4015.7	3792.4	3085.5	2304.9	1741.8	1506.8	1376.7	1304.9	1256.4	1252.5
20°	4287.5	4242.9	3846.7	2870.0	1988.4	1536.0	1341.8	1233.1	1178.7	1136.0	1128.2
22.5°	4629.3	4565.2	3912.8	2637.0	1765.1	1394.2	1219.5	1139.8	1095.2	1046.6	1038.9
25°	5052.6	4976.9	3994.3	2421.4	1611.7	1271.9	1130.1	1064.1	1011.7	955.4	949.5
27.5°	5644.9	5508.9	4091.4	2244.7	1479.7	1167.0	1048.6	974.8	914.6	868.0	858.3
30°	6305.1	6081.8	4176.8	2137.9	1359.3	1069.9	941.8	868.0	811.7	778.7	772.8
32.5°	6930.3	6627.4	4233.2	2091.3	1250.5	959.3	825.3	745.7	702.9	693.2	699.1
35°	7520.6	7120.6	4227.3	2046.7	1153.4	848.6	710.7	629.1	596.1	602.0	602.0
37.5°	8200.3	7646.9	4186.6	1976.8	1073.8	747.6	611.7	539.8	510.7	512.6	520.4
40°	8990.6	8254.6	4161.3	1844.7	986.4	654.4	530.1	471.9	450.5	442.7	440.8
42.5°	9833.3	8843.0	4165.2	1695.2	877.7	570.9	473.8	425.3	405.8	400.0	398.1
45°	10680.0	9404.2	4171.0	1539.9	763.1	506.8	433.0	392.2	380.6	372.8	372.8
47.5°	11476.1	9881.9	4062.3	1372.9	650.5	458.3	400.0	372.8	363.1	353.4	353.4
50°	12217.9	10200.3	3800.1	1178.7	561.2	419.4	374.8	355.4	345.6	335.9	335.9
52.5°	12794.6	10250.8	3367.1	978.7	499.0	390.3	359.2	341.8	330.1	320.4	318.5
55°	13050.9	9934.3	2751.5	792.3	450.5	365.1	343.7	326.2	312.6	302.9	301.0
57.5°	12984.9	9268.3	2145.7	636.9	403.9	339.8	324.3	312.6	297.1	281.6	279.6
60°	12660.6	8377.0	1617.5	530.1	361.2	312.6	302.9	293.2	271.9	248.6	244.7
62.5°	12099.4	7256.6	1153.4	438.8	314.6	281.6	277.7	269.9	238.8	196.1	192.2
65°	11241.2	5895.3	776.7	365.1	269.9	246.6	248.6	235.0	194.2	145.6	141.8
67.5°	9986.7	4310.8	497.1	299.0	225.3	205.8	207.8	200.0	165.1	124.3	118.5
70°	8388.6	2854.5	324.3	227.2	180.6	159.2	170.9	172.8	139.8	101.0	97.1
72.5°	6149.7	1685.5	227.2	168.9	132.0	110.7	139.8	143.7	112.6	75.7	71.8
75°	3505.0	800.0	170.9	122.3	81.6	77.7	108.7	108.7	77.7	50.5	46.6
77.5°	1471.9	334.0	120.4	79.6	46.6	44.7	73.8	68.0	38.8	23.3	23.3
80°	425.3	149.5	64.1	38.8	19.4	17.5	29.1	21.4	9.7	3.9	3.9
82.5°	167.0	66.0	25.2	15.5	7.8	7.8	3.9	0.0	0.0	0.0	0.0
85°	99.0	27.2	11.7	5.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	25.2	5.8	3.9	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)