

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: P885008

Luminaire Tested: **NAV-SB6A-830-U-T3-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885008  
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-SB6A-830-U-T3-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

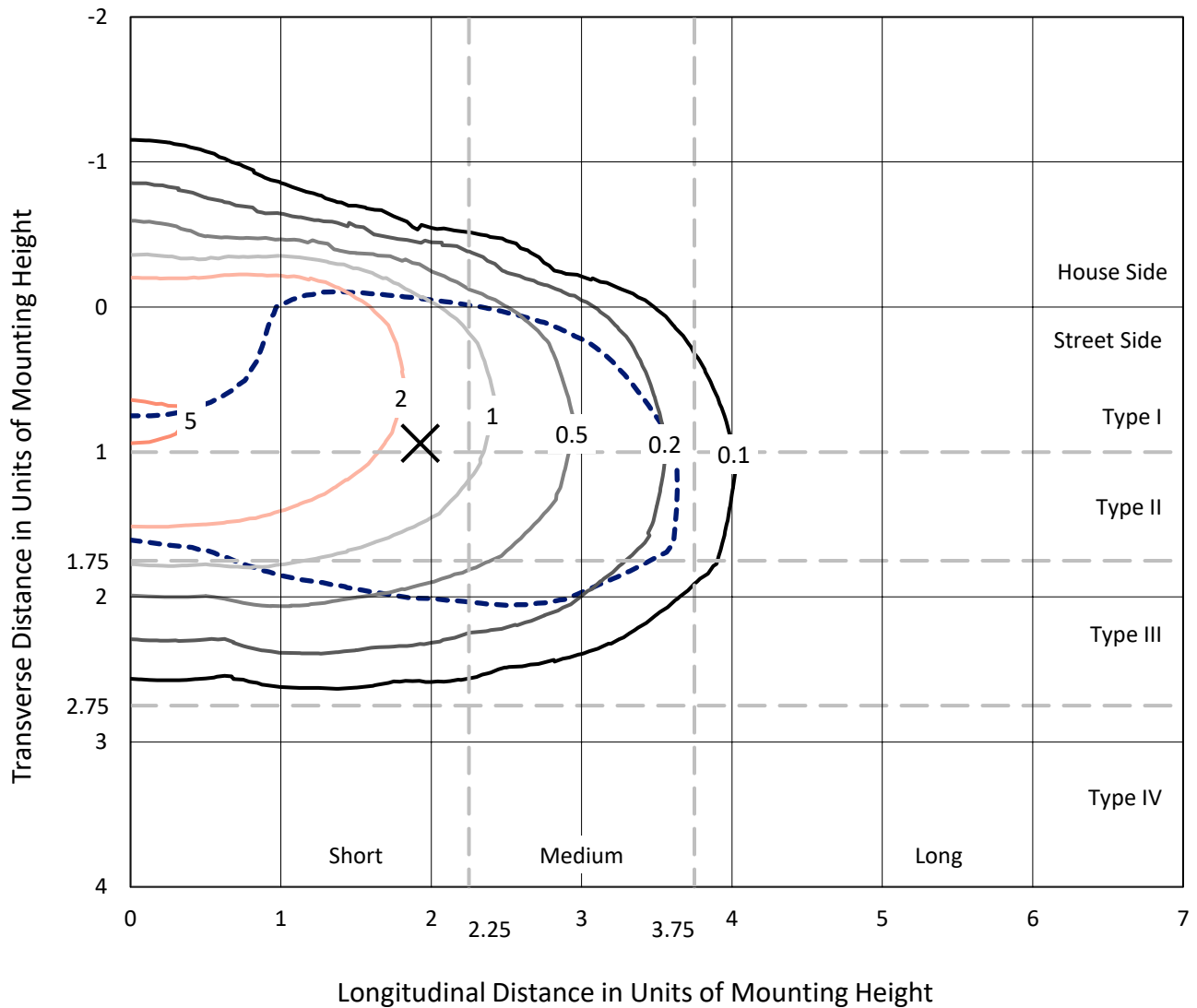
Lumens per Lamp: N/A  
Luminaire Lumens: 18684 lumens  
Efficiency: N/A  
Efficacy: 109.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 170.9  
Input Voltage (V): 120.0  
Input Current (Ain): 1.434  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 11.969  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P885008  
 CATALOG NUMBER: NAV-SB6A-830-U-T3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

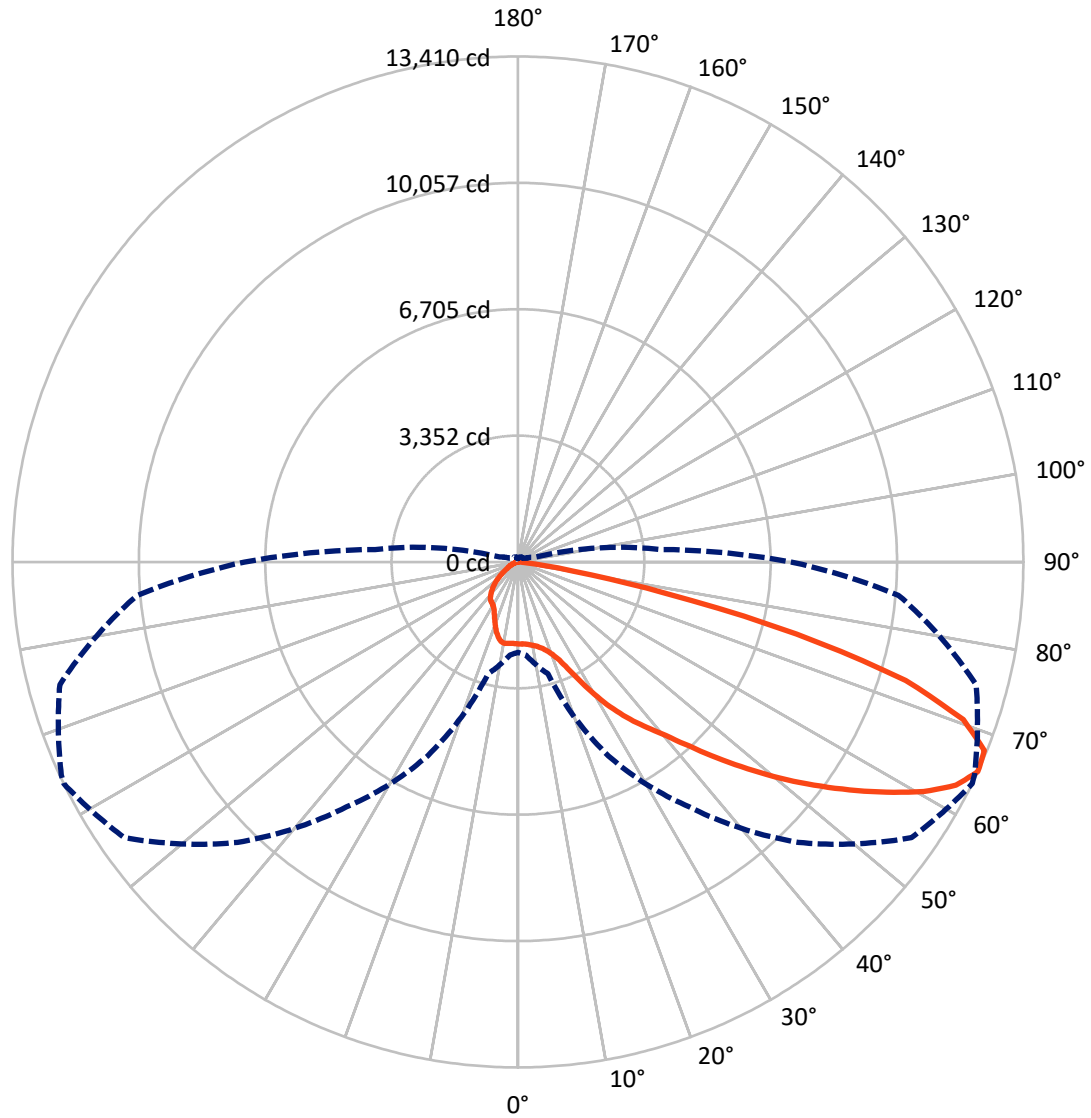
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type III - Short - N/A

REPORT NUMBER: P885008  
CATALOG NUMBER: NAV-SB6A-830-U-T3-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P885008

CATALOG NUMBER: NAV-SB6A-830-U-T3-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2498.6	0.0	2498.6
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	16185.4	0.0	16185.4
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	18684.0	0.0	18684.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	200.5	1.1
10°-20°	543.8	2.9
20°-30°	1030.4	5.5
30°-40°	2085.1	11.2
40°-50°	3552.1	19.0
50°-60°	4830.5	25.9
60°-70°	4536.1	24.3
70°-80°	1817.4	9.7
80°-90°	88.0	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°	18684.0	100.0
0°-180°	18684.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P885008

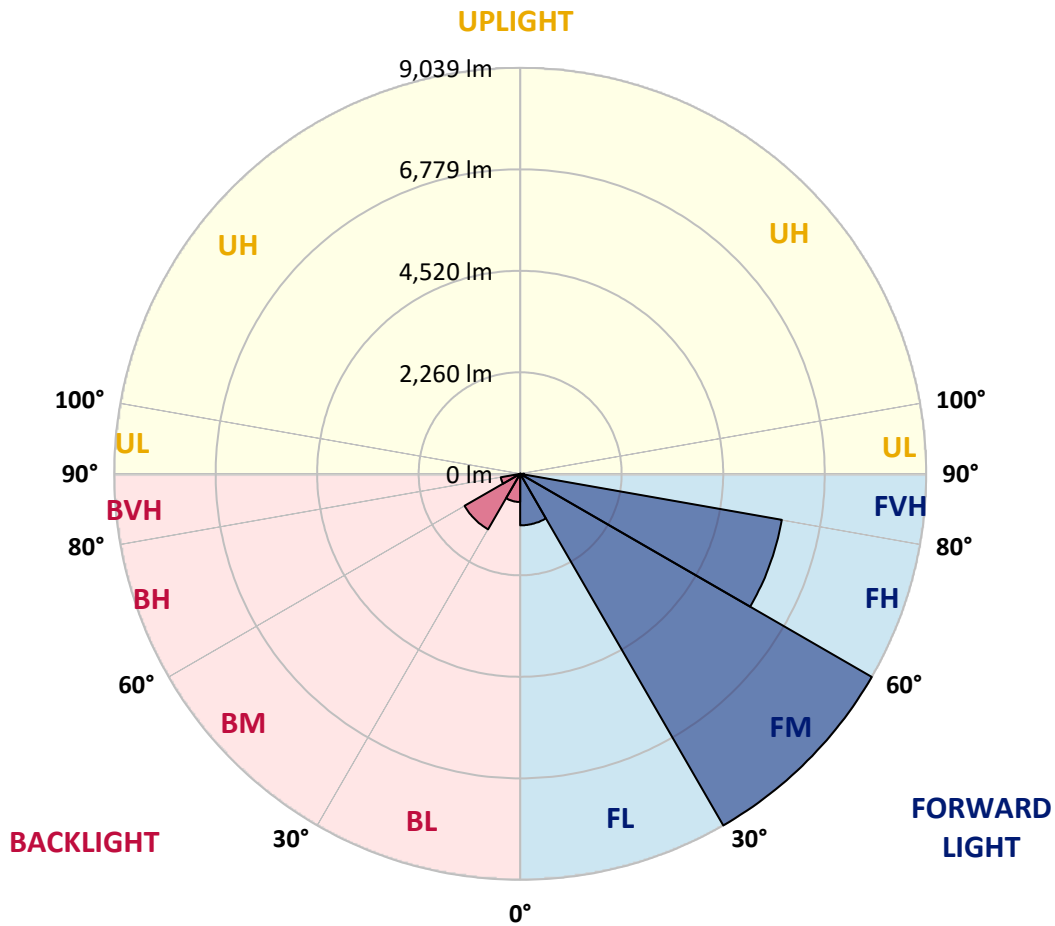
CATALOG NUMBER: NAV-SB6A-830-U-T3-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1147.4	6.1			
FM (30°-60°)	9039.3	48.4			
FH (60°-80°)	5914.9	31.7			G3/7500
FVH (80°-90°)	83.7	0.4			G1/100
BL (0°-30°)	627.3	3.4	B2/1000		
BM (30°-60°)	1428.4	7.6	B2/2500		
BH (60°-80°)	438.5	2.3	B1/500		G1/500
BVH (80°-90°)	4.3	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: P885008

CATALOG NUMBER: NAV-SB6A-830-U-T3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2173.1	2173.1	2173.1	2173.1	2173.1	2173.1	2173.1	2173.1	2173.1	2173.1	2173.1
2.5°	2165.6	2180.7	2176.9	2173.1	2171.9	2174.4	2175.6	2174.4	2174.4	2174.4	2175.6
5°	2124.3	2136.8	2136.8	2145.6	2158.1	2173.1	2184.4	2186.9	2189.4	2193.2	2191.9
7.5°	2045.4	2055.4	2062.9	2091.7	2123.0	2163.1	2196.9	2214.5	2217.0	2230.8	2235.8
10°	1991.5	2004.1	2016.6	2046.6	2091.7	2151.9	2209.5	2252.1	2258.3	2290.9	2305.9
12.5°	1989.0	2001.5	2017.8	2050.4	2103.0	2166.9	2237.0	2298.4	2309.7	2357.3	2388.6
15°	2015.3	2030.4	2045.4	2085.5	2141.8	2219.5	2294.6	2371.0	2382.3	2450.0	2483.8
17.5°	2069.2	2089.2	2100.5	2140.6	2200.7	2287.1	2386.1	2473.8	2483.8	2562.7	2605.3
20°	2175.6	2199.4	2203.2	2235.8	2294.6	2387.3	2505.1	2614.0	2626.6	2716.7	2764.3
22.5°	2396.1	2429.9	2399.9	2416.1	2468.7	2561.4	2689.2	2827.0	2844.5	2947.2	2989.8
25°	2784.4	2832.0	2754.3	2726.8	2749.3	2845.8	3006.1	3180.2	3200.2	3282.9	3304.2
27.5°	3547.2	3485.8	3368.1	3252.8	3185.2	3240.3	3420.7	3636.1	3661.2	3741.3	3716.3
30°	4385.1	4331.3	4172.2	3916.7	3756.3	3747.6	3914.2	4154.6	4183.5	4259.9	4183.5
32.5°	5224.3	5173.0	5000.1	4685.7	4407.7	4269.9	4385.1	4651.9	4666.9	4715.8	4603.1
35°	6049.7	5997.1	5824.3	5502.4	5160.4	4847.3	4824.8	5125.4	5130.4	5181.7	5013.9
37.5°	6880.2	6836.3	6652.2	6336.6	5999.6	5567.5	5358.3	5573.8	5580.0	5630.1	5456.0
40°	7472.6	7491.4	7364.9	7120.6	6831.3	6359.1	5957.0	6051.0	6013.4	6097.3	5993.4
42.5°	7981.1	8018.7	7908.5	7785.7	7617.9	7202.1	6698.5	6682.3	6622.1	6667.2	6559.5
45°	8420.8	8452.1	8353.1	8324.3	8320.6	8028.7	7508.9	7411.2	7327.3	7318.5	7189.5
47.5°	8582.4	8642.5	8685.1	8781.5	8969.4	8846.6	8346.9	8195.3	8101.4	8032.5	7828.3
50°	8643.7	8707.6	8852.9	9133.5	9578.1	9630.7	9181.1	9010.7	8895.5	8770.2	8469.6
52.5°	8561.1	8675.0	8870.4	9342.6	9987.7	10259.5	9981.4	9832.4	9700.9	9496.7	9050.8
55°	8073.8	8187.8	8587.4	9340.1	10191.9	10700.4	10738.0	10671.6	10523.8	10201.9	9520.5
57.5°	7046.7	7215.8	7848.4	9022.0	10188.1	11079.9	11479.5	11527.1	11361.7	10900.8	9890.0
60°	5623.9	5853.1	6624.6	8316.8	9873.7	11285.3	12129.5	12367.5	12192.1	11589.7	10189.3
62.5°	3924.2	4189.7	4919.9	7212.1	9154.8	11137.5	12604.2	13043.9	12911.1	12205.9	10304.6
65°	2393.6	2478.8	3067.5	5675.2	7932.3	10518.8	12750.8	13409.6	13365.8	12582.9	10134.2
67.5°	1594.5	1665.9	1835.0	3891.6	6157.4	9282.5	12400.1	13345.7	13358.3	12521.6	9510.5
70°	960.7	1022.1	1132.3	2263.3	3990.6	7347.4	11314.1	12531.6	12604.2	11701.2	8328.1
72.5°	395.8	437.1	537.3	1025.8	2066.7	4663.2	9009.5	10759.3	10928.3	9838.6	6391.7
75°	224.2	245.5	315.6	514.8	896.8	2173.1	5457.3	7637.9	7887.2	6781.2	3845.3
77.5°	149.1	159.1	204.2	333.2	504.8	741.5	2332.2	3979.3	4455.3	3703.7	1664.6
80°	100.2	109.0	140.3	223.0	328.2	318.1	742.8	1474.2	1813.7	1272.6	405.8
82.5°	67.6	68.9	100.2	146.5	207.9	154.1	219.2	458.4	576.2	368.2	154.1
85°	38.8	37.6	73.9	85.2	92.7	63.9	66.4	137.8	180.4	155.3	87.7
87.5°	5.0	7.5	28.8	22.5	12.5	13.8	13.8	23.8	35.1	37.6	18.8
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: P885008

CATALOG NUMBER: NAV-SB6A-830-U-T3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2173.1	2173.1	2173.1	2173.1	2173.1	2173.1	2173.1	2173.1	2173.1	2173.1	2173.1
2.5°	2175.6	2174.4	2170.6	2166.9	2158.1	2153.1	2155.6	2153.1	2151.9	2153.1	2158.1
5°	2191.9	2188.2	2178.2	2165.6	2148.1	2126.8	2113.0	2093.0	2074.2	2062.9	2065.4
7.5°	2235.8	2232.0	2218.2	2183.2	2126.8	2037.9	1956.5	1885.1	1831.2	1799.9	1801.1
10°	2305.9	2299.6	2278.4	2200.7	2052.9	1858.8	1697.2	1563.2	1475.5	1434.1	1430.4
12.5°	2388.6	2381.1	2343.5	2184.4	1912.6	1609.5	1386.6	1237.5	1156.1	1119.8	1116.0
15°	2486.3	2476.3	2402.4	2106.8	1708.5	1333.9	1129.8	1018.3	965.7	933.1	934.4
17.5°	2607.8	2590.2	2446.2	1990.3	1486.8	1123.5	972.0	888.0	841.7	810.4	807.9
20°	2765.6	2736.8	2481.3	1851.2	1282.6	990.8	865.5	795.4	760.3	732.7	727.7
22.5°	2986.0	2944.7	2523.9	1700.9	1138.6	899.3	786.6	735.2	706.4	675.1	670.1
25°	3259.1	3210.2	2576.5	1561.9	1039.6	820.4	729.0	686.4	652.6	616.2	612.5
27.5°	3641.1	3553.4	2639.1	1447.9	954.4	752.8	676.4	628.8	589.9	559.9	553.6
30°	4067.0	3922.9	2694.2	1379.0	876.8	690.1	607.5	559.9	523.6	502.3	498.5
32.5°	4470.3	4274.9	2730.5	1349.0	806.6	618.8	532.3	481.0	453.4	447.2	450.9
35°	4851.1	4593.0	2726.8	1320.2	744.0	547.4	458.4	405.8	384.5	388.3	388.3
37.5°	5289.4	4932.5	2700.5	1275.1	692.7	482.2	394.5	348.2	329.4	330.7	335.7
40°	5799.2	5324.5	2684.2	1189.9	636.3	422.1	341.9	304.4	290.6	285.6	284.3
42.5°	6342.8	5704.0	2686.7	1093.5	566.1	368.2	305.6	274.3	261.8	258.0	256.8
45°	6888.9	6066.0	2690.4	993.3	492.2	326.9	279.3	253.0	245.5	240.5	240.5
47.5°	7402.5	6374.1	2620.3	885.5	419.6	295.6	258.0	240.5	234.2	228.0	228.0
50°	7880.9	6579.6	2451.2	760.3	362.0	270.5	241.7	229.2	223.0	216.7	216.7
52.5°	8252.9	6612.1	2171.9	631.3	321.9	251.8	231.7	220.4	212.9	206.7	205.4
55°	8418.3	6408.0	1774.8	511.0	290.6	235.5	221.7	210.4	201.7	195.4	194.1
57.5°	8375.7	5978.3	1384.0	410.8	260.5	219.2	209.2	201.7	191.6	181.6	180.4
60°	8166.5	5403.4	1043.4	341.9	233.0	201.7	195.4	189.1	175.4	160.3	157.8
62.5°	7804.5	4680.7	744.0	283.1	202.9	181.6	179.1	174.1	154.1	126.5	124.0
65°	7250.9	3802.7	501.0	235.5	174.1	159.1	160.3	151.6	125.3	93.9	91.4
67.5°	6441.8	2780.6	320.6	192.9	145.3	132.8	134.0	129.0	106.5	80.2	76.4
70°	5410.9	1841.2	209.2	146.5	116.5	102.7	110.2	111.5	90.2	65.1	62.6
72.5°	3966.8	1087.2	146.5	109.0	85.2	71.4	90.2	92.7	72.6	48.8	46.3
75°	2260.8	516.0	110.2	78.9	52.6	50.1	70.1	70.1	50.1	32.6	30.1
77.5°	949.4	215.4	77.7	51.4	30.1	28.8	47.6	43.8	25.1	15.0	15.0
80°	274.3	96.4	41.3	25.1	12.5	11.3	18.8	13.8	6.3	2.5	2.5
82.5°	107.7	42.6	16.3	10.0	5.0	5.0	2.5	0.0	0.0	0.0	0.0
85°	63.9	17.5	7.5	3.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.3	3.8	2.5	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)