

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: P883268

Luminaire Tested: **NAV-SB3C-740-U-T3-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P883268  
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-SB3C-740-U-T3-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

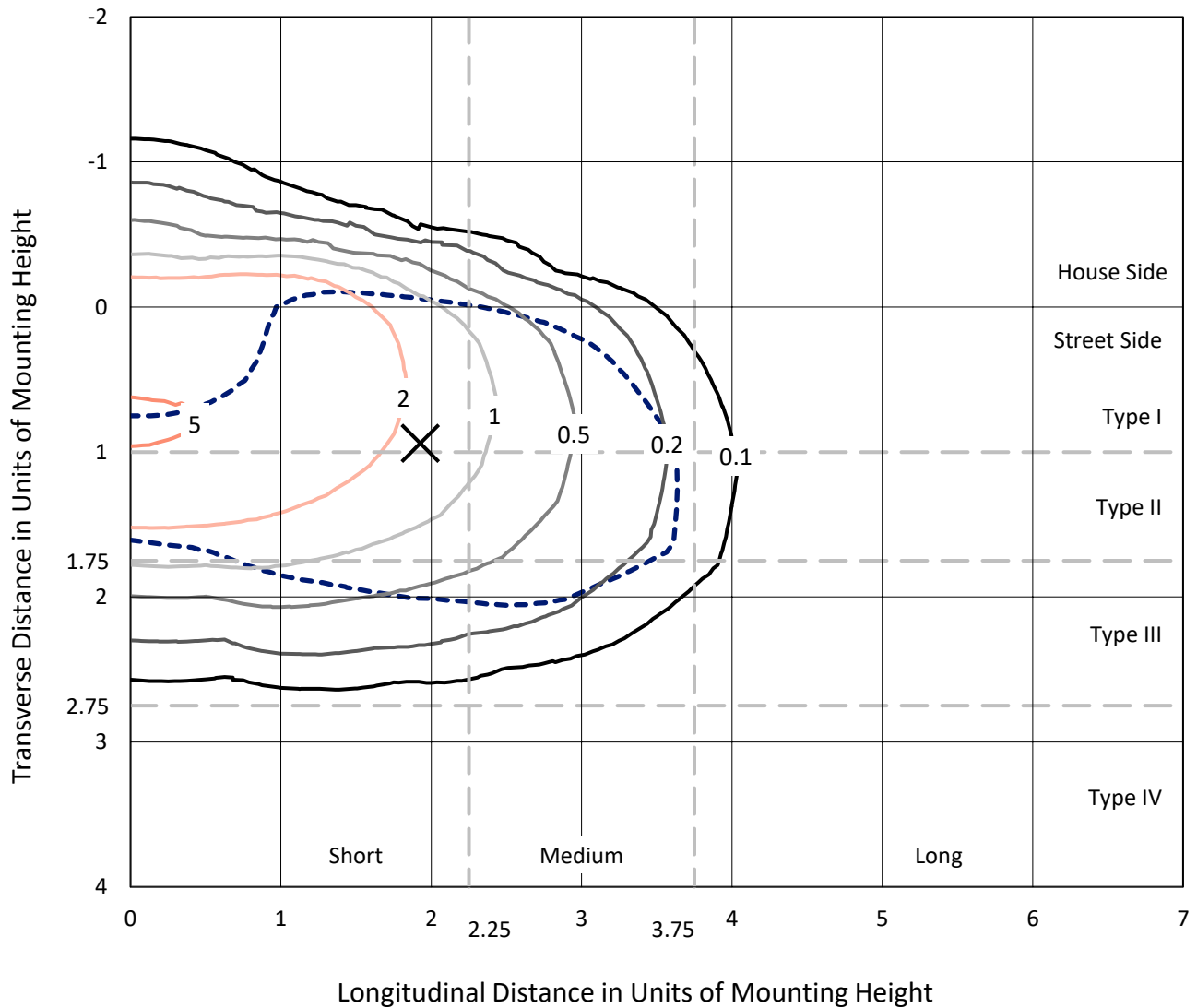
Lumens per Lamp: N/A  
Luminaire Lumens: 18994 lumens  
Efficiency: N/A  
Efficacy: 127.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 149.1  
Input Voltage (V): 120.0  
Input Current (Ain): 1.259  
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



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### Iso-Footcandle Lines of Horizontal Illumination

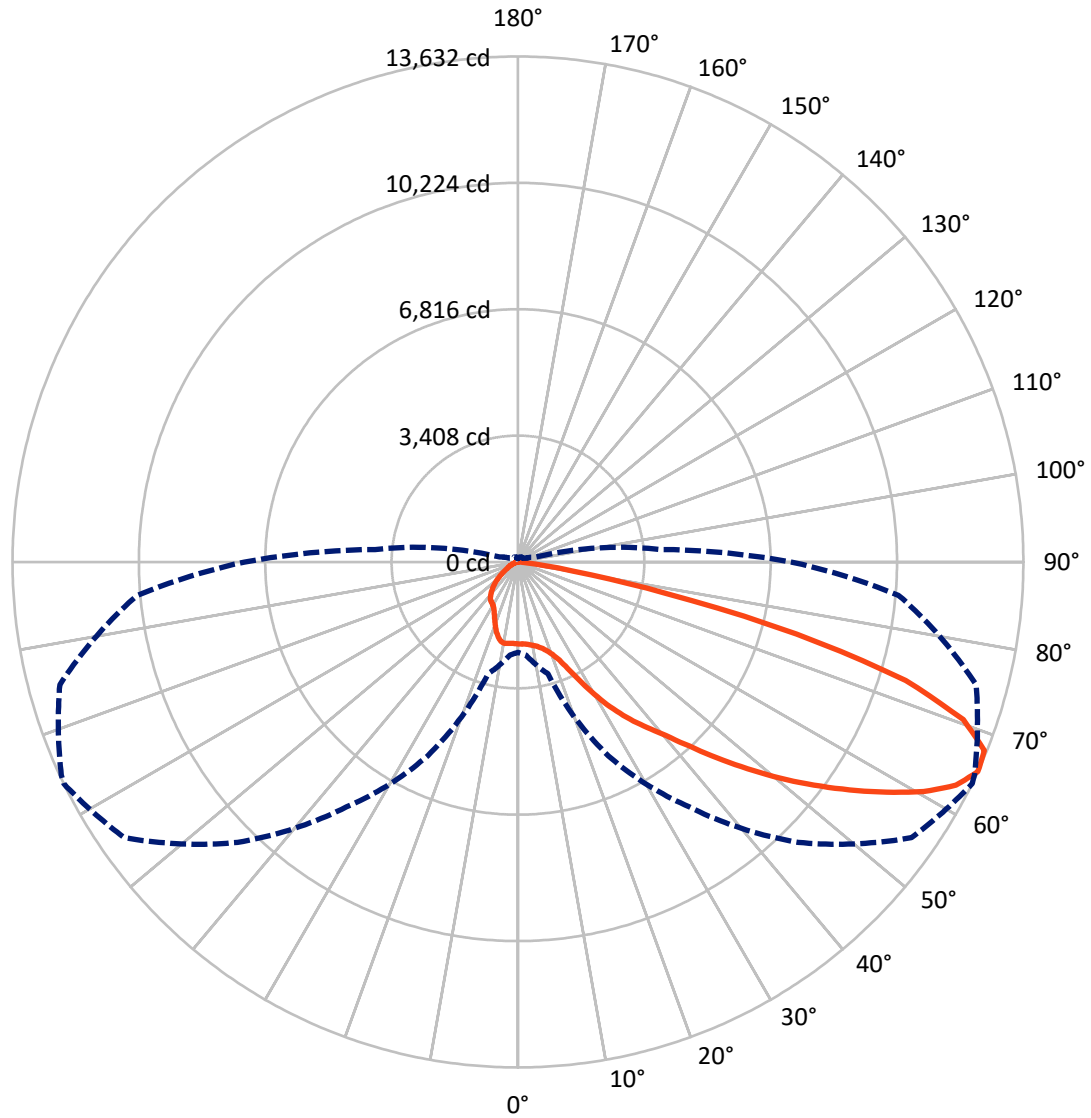
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type III - Short - N/A

REPORT NUMBER: P883268  
CATALOG NUMBER: NAV-SB3C-740-U-T3-HSS

### Luminous Intensity Polar Plot



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

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CATALOG NUMBER: NAV-SB3C-740-U-T3-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2540.1	0.0	2540.1
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	16453.9	0.0	16453.9
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	18994.0	0.0	18994.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	203.8	1.1
10°-20°	552.8	2.9
20°-30°	1047.5	5.5
30°-40°	2119.7	11.2
40°-50°	3611.0	19.0
50°-60°	4910.7	25.9
60°-70°	4611.4	24.3
70°-80°	1847.5	9.7
80°-90°	89.5	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°	18994.0	100.0
0°-180°	18994.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P883268

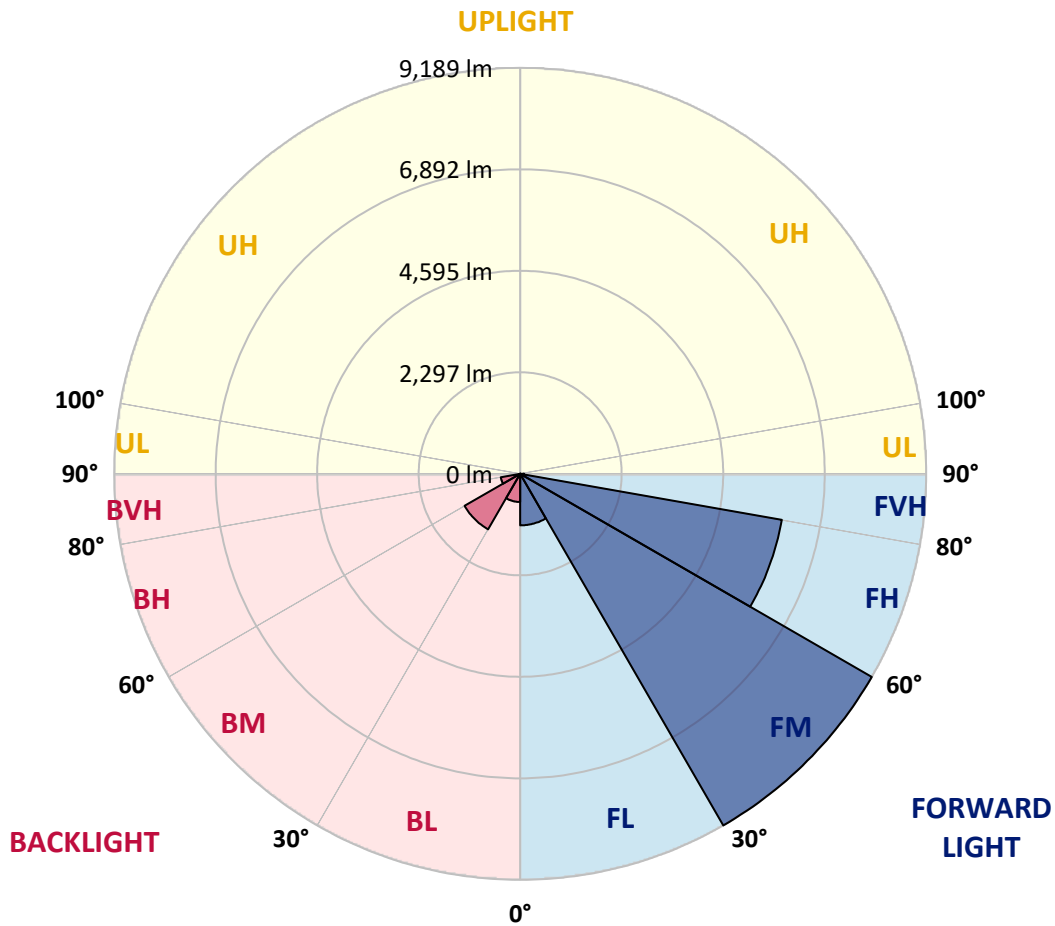
CATALOG NUMBER: NAV-SB3C-740-U-T3-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1166.4	6.1			
FM (30°-60°)	9189.3	48.4			
FH (60°-80°)	6013.1	31.7			G3/7500
FVH (80°-90°)	85.1	0.4			G1/100
BL (0°-30°)	637.7	3.4	B2/1000		
BM (30°-60°)	1452.1	7.6	B2/2500		
BH (60°-80°)	445.8	2.3	B1/500		G1/500
BVH (80°-90°)	4.4	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: P883268

CATALOG NUMBER: NAV-SB3C-740-U-T3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2209.2	2209.2	2209.2	2209.2	2209.2	2209.2	2209.2	2209.2	2209.2	2209.2	2209.2
2.5°	2201.6	2216.8	2213.0	2209.2	2207.9	2210.5	2211.7	2210.5	2210.5	2210.5	2211.7
5°	2159.5	2172.3	2172.3	2181.2	2193.9	2209.2	2220.7	2223.2	2225.8	2229.6	2228.3
7.5°	2079.3	2089.5	2097.1	2126.4	2158.3	2199.0	2233.4	2251.2	2253.8	2267.8	2272.9
10°	2024.6	2037.3	2050.0	2080.6	2126.4	2187.6	2246.1	2289.4	2295.8	2328.9	2344.2
12.5°	2022.0	2034.8	2051.3	2084.4	2137.9	2202.8	2274.1	2336.5	2348.0	2396.4	2428.2
15°	2048.8	2064.0	2079.3	2120.1	2177.4	2256.3	2332.7	2410.4	2421.8	2490.6	2525.0
17.5°	2103.5	2123.9	2135.3	2176.1	2237.2	2325.1	2425.7	2514.8	2525.0	2605.2	2648.5
20°	2211.7	2235.9	2239.8	2272.9	2332.7	2426.9	2546.6	2657.4	2670.1	2761.8	2810.2
22.5°	2435.8	2470.2	2439.7	2456.2	2509.7	2603.9	2733.8	2873.9	2891.7	2996.1	3039.4
25°	2830.6	2879.0	2800.0	2772.0	2794.9	2893.0	3056.0	3232.9	3253.3	3337.4	3359.0
27.5°	3606.0	3543.6	3423.9	3306.8	3238.0	3294.1	3477.4	3696.4	3721.9	3803.4	3777.9
30°	4457.9	4403.1	4241.4	3981.7	3818.7	3809.8	3979.1	4223.6	4252.9	4330.5	4252.9
32.5°	5311.0	5258.8	5083.1	4763.5	4480.8	4340.7	4457.9	4729.1	4744.4	4794.0	4679.4
35°	6150.1	6096.6	5920.9	5593.7	5246.1	4927.7	4904.8	5210.4	5215.5	5267.7	5097.1
37.5°	6994.3	6949.7	6762.6	6441.7	6099.2	5659.9	5447.2	5666.2	5672.6	5723.5	5546.6
40°	7596.6	7615.7	7487.1	7238.8	6944.7	6464.6	6055.9	6151.4	6113.2	6198.5	6092.8
42.5°	8113.6	8151.8	8039.7	7914.9	7744.3	7321.6	6809.7	6793.1	6732.0	6777.8	6668.3
45°	8560.5	8592.3	8491.7	8462.4	8458.6	8161.9	7633.5	7534.2	7448.9	7440.0	7308.8
47.5°	8724.7	8785.9	8829.2	8927.2	9118.2	8993.4	8485.4	8331.3	8235.8	8165.8	7958.2
50°	8787.1	8852.1	8999.8	9285.0	9737.0	9790.5	9333.4	9160.2	9043.1	8915.7	8610.1
52.5°	8703.1	8819.0	9017.6	9497.6	10153.4	10429.7	10147.0	9995.5	9861.8	9654.3	9201.0
55°	8207.8	8323.7	8729.8	9495.1	10361.0	10877.9	10916.1	10848.6	10698.4	10371.1	9678.5
57.5°	7163.7	7335.6	7978.6	9171.7	10357.1	11263.7	11669.9	11718.3	11550.2	11081.6	10054.1
60°	5717.2	5950.2	6734.6	8454.8	10037.5	11472.6	12330.8	12572.7	12394.4	11782.0	10358.4
62.5°	3989.3	4259.2	5001.6	7331.7	9306.7	11322.3	12813.4	13260.3	13125.3	12408.4	10475.6
65°	2433.3	2519.9	3118.3	5769.4	8063.9	10693.3	12962.3	13632.1	13587.5	12791.7	10302.4
67.5°	1620.9	1693.5	1865.4	3956.2	6259.6	9436.5	12605.8	13567.2	13579.9	12729.3	9668.3
70°	976.6	1039.0	1151.1	2300.9	4056.8	7469.3	11501.8	12739.5	12813.4	11895.3	8466.3
72.5°	402.4	444.4	546.3	1042.8	2101.0	4740.5	9158.9	10937.8	11109.7	10001.9	6497.7
75°	227.9	249.6	320.9	523.3	911.7	2209.2	5547.8	7764.7	8018.1	6893.7	3909.1
77.5°	151.5	161.7	207.6	338.7	513.1	753.8	2370.9	4045.3	4529.2	3765.2	1692.2
80°	101.9	110.8	142.6	226.6	333.6	323.4	755.1	1498.7	1843.8	1293.7	412.6
82.5°	68.8	70.0	101.9	149.0	211.4	156.6	222.8	466.0	585.7	374.4	156.6
85°	39.5	38.2	75.1	86.6	94.2	64.9	67.5	140.1	183.4	157.9	89.1
87.5°	5.1	7.6	29.3	22.9	12.7	14.0	14.0	24.2	35.7	38.2	19.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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 CATALOG NUMBER: NAV-SB3C-740-U-T3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2209.2	2209.2	2209.2	2209.2	2209.2	2209.2	2209.2	2209.2	2209.2	2209.2	2209.2
2.5°	2211.7	2210.5	2206.7	2202.8	2193.9	2188.8	2191.4	2188.8	2187.6	2188.8	2193.9
5°	2228.3	2224.5	2214.3	2201.6	2183.7	2162.1	2148.1	2127.7	2108.6	2097.1	2099.7
7.5°	2272.9	2269.0	2255.0	2219.4	2162.1	2071.7	1988.9	1916.3	1861.6	1829.8	1831.0
10°	2344.2	2337.8	2316.2	2237.2	2087.0	1889.6	1725.3	1589.1	1500.0	1457.9	1454.1
12.5°	2428.2	2420.6	2382.4	2220.7	1944.4	1636.2	1409.6	1258.0	1175.3	1138.3	1134.5
15°	2527.5	2517.3	2442.2	2141.7	1736.8	1356.1	1148.5	1035.2	981.7	948.6	949.9
17.5°	2651.0	2633.2	2486.8	2023.3	1511.4	1142.2	988.1	902.8	855.7	823.8	821.3
20°	2811.5	2782.2	2522.4	1882.0	1303.9	1007.2	879.9	808.6	772.9	744.9	739.8
22.5°	3035.6	2993.6	2565.7	1729.2	1157.4	914.2	799.6	747.4	718.1	686.3	681.2
25°	3313.2	3263.5	2619.2	1587.8	1056.9	834.0	741.1	697.8	663.4	626.5	622.7
27.5°	3701.5	3612.4	2682.9	1472.0	970.3	765.3	687.6	639.2	599.7	569.2	562.8
30°	4134.4	3988.0	2738.9	1401.9	891.3	701.6	617.6	569.2	532.2	510.6	506.8
32.5°	4544.5	4345.8	2775.8	1371.4	820.0	629.0	541.2	489.0	460.9	454.6	458.4
35°	4931.5	4669.2	2772.0	1342.1	756.3	556.4	466.0	412.6	390.9	394.7	394.7
37.5°	5377.2	5014.3	2745.3	1296.2	704.1	490.2	401.1	354.0	334.9	336.2	341.2
40°	5895.4	5412.9	2728.7	1209.6	646.8	429.1	347.6	309.4	295.4	290.3	289.0
42.5°	6448.1	5798.7	2731.3	1111.6	575.5	374.4	310.7	278.9	266.1	262.3	261.0
45°	7003.2	6166.7	2735.1	1009.7	500.4	332.3	283.9	257.2	249.6	244.5	244.5
47.5°	7525.3	6479.9	2663.8	900.2	426.6	300.5	262.3	244.5	238.1	231.7	231.7
50°	8011.7	6688.7	2491.9	772.9	368.0	275.0	245.7	233.0	226.6	220.3	220.3
52.5°	8389.9	6721.8	2207.9	641.8	327.2	255.9	235.6	224.1	216.5	210.1	208.8
55°	8557.9	6514.3	1804.3	519.5	295.4	239.4	225.4	213.9	205.0	198.6	197.4
57.5°	8514.6	6077.5	1407.0	417.6	264.8	222.8	212.6	205.0	194.8	184.6	183.4
60°	8302.0	5493.1	1060.7	347.6	236.8	205.0	198.6	192.3	178.3	163.0	160.4
62.5°	7934.0	4758.4	756.3	287.8	206.3	184.6	182.1	177.0	156.6	128.6	126.1
65°	7371.2	3865.8	509.3	239.4	177.0	161.7	163.0	154.1	127.3	95.5	93.0
67.5°	6548.7	2826.8	326.0	196.1	147.7	135.0	136.2	131.2	108.2	81.5	77.7
70°	5500.7	1871.8	212.6	149.0	118.4	104.4	112.1	113.3	91.7	66.2	63.7
72.5°	4032.6	1105.2	149.0	110.8	86.6	72.6	91.7	94.2	73.9	49.7	47.1
75°	2298.3	524.6	112.1	80.2	53.5	50.9	71.3	71.3	50.9	33.1	30.6
77.5°	965.2	219.0	78.9	52.2	30.6	29.3	48.4	44.6	25.5	15.3	15.3
80°	278.9	98.0	42.0	25.5	12.7	11.5	19.1	14.0	6.4	2.5	2.5
82.5°	109.5	43.3	16.6	10.2	5.1	5.1	2.5	0.0	0.0	0.0	0.0
85°	64.9	17.8	7.6	3.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.6	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)