

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: P884938

Luminaire Tested: **NAV-SB6A-727-U-T3-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884938
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-727-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 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: 19352 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

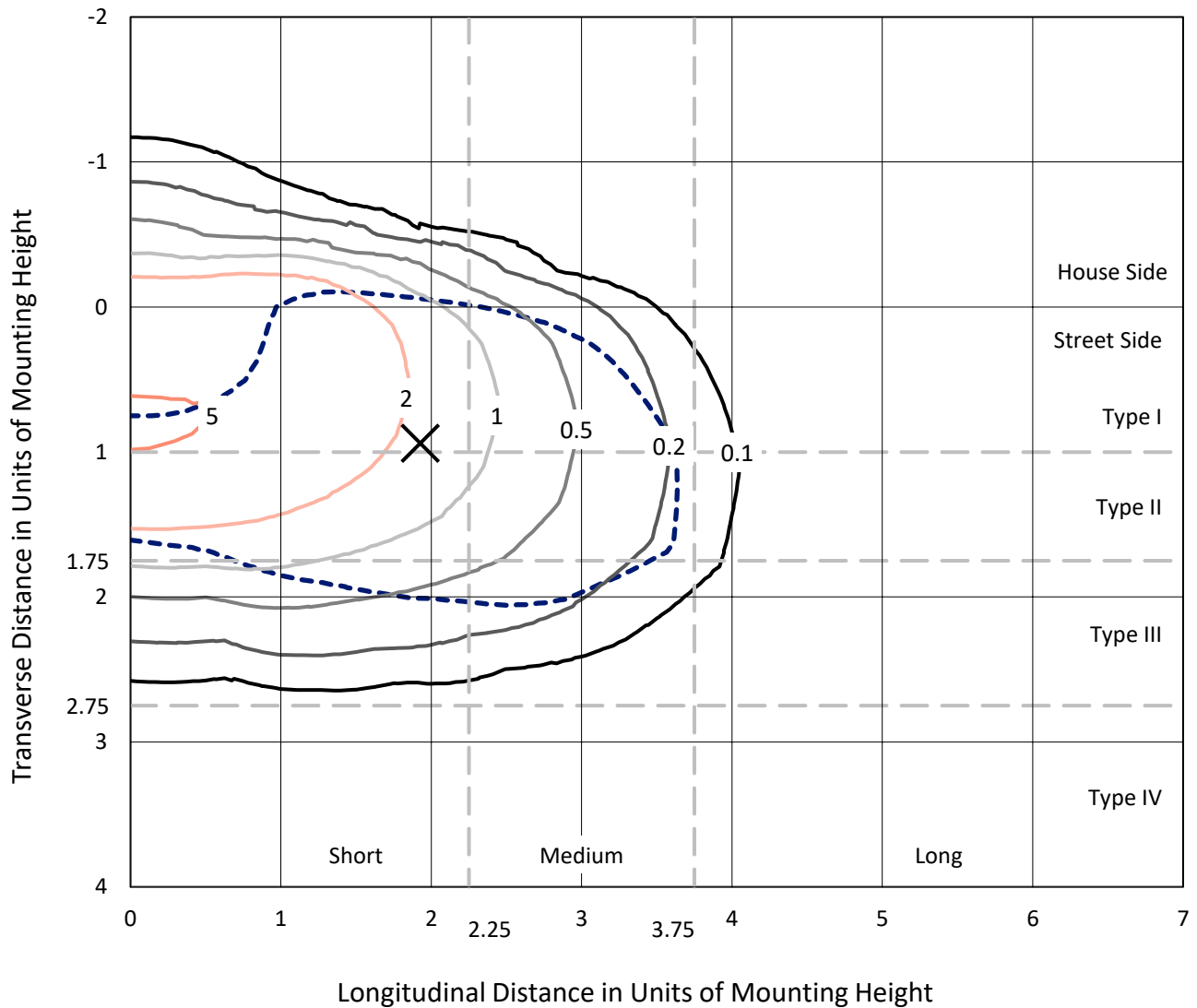
Input Watts (W): 170.9
Input Voltage (V): 120.0
Input Current (Ain): 1.434
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

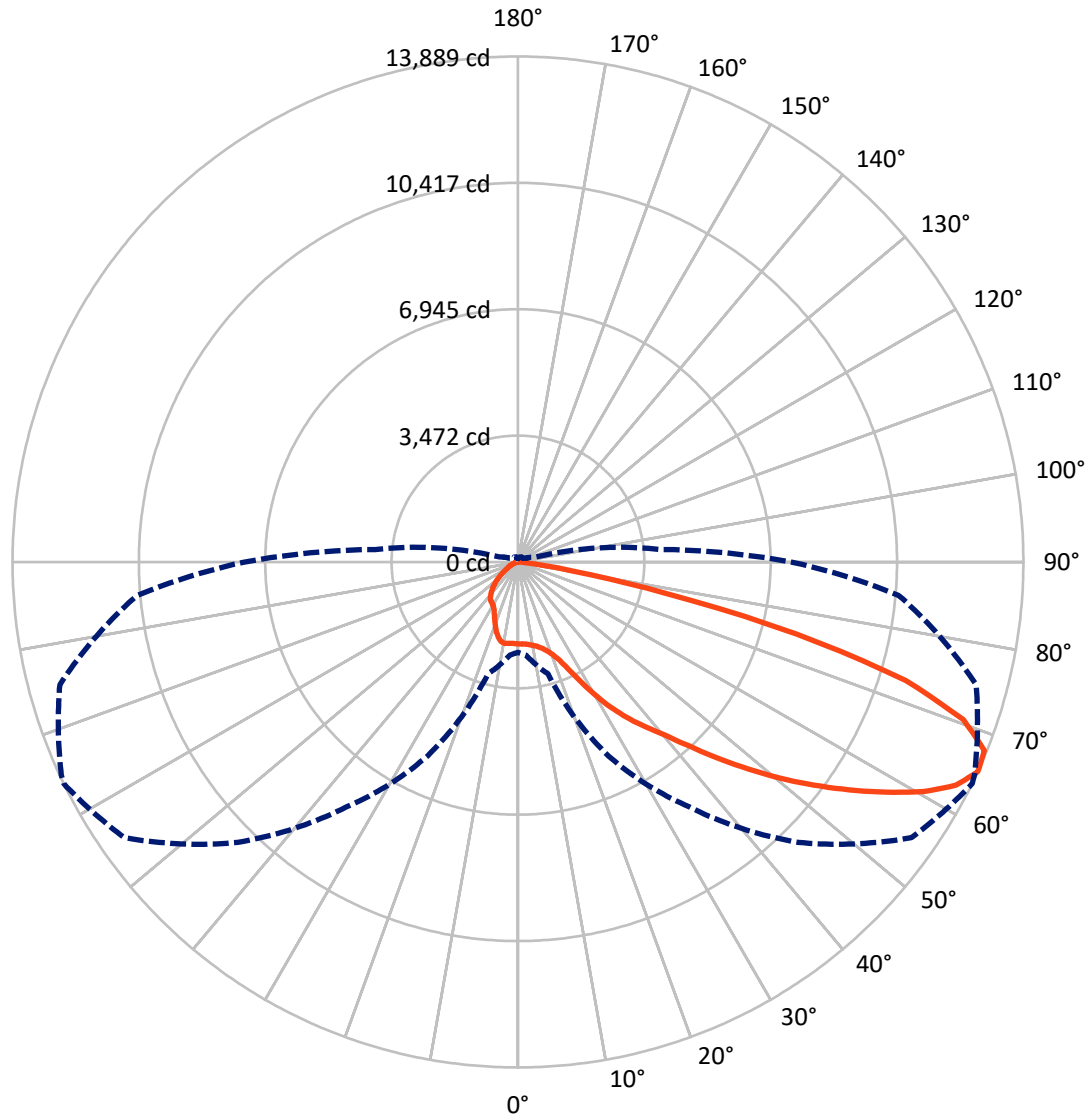
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2588.0	0.0	2588.0
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	16764.1	0.0	16764.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	19352.0	0.0	19352.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.7	1.1
10°-20°	563.2	2.9
20°-30°	1067.3	5.5
30°-40°	2159.7	11.2
40°-50°	3679.1	19.0
50°-60°	5003.2	25.9
60°-70°	4698.3	24.3
70°-80°	1882.3	9.7
80°-90°	91.2	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°	19352.0	100.0
0°-180°	19352.0	100.0

Coefficient of Utilization



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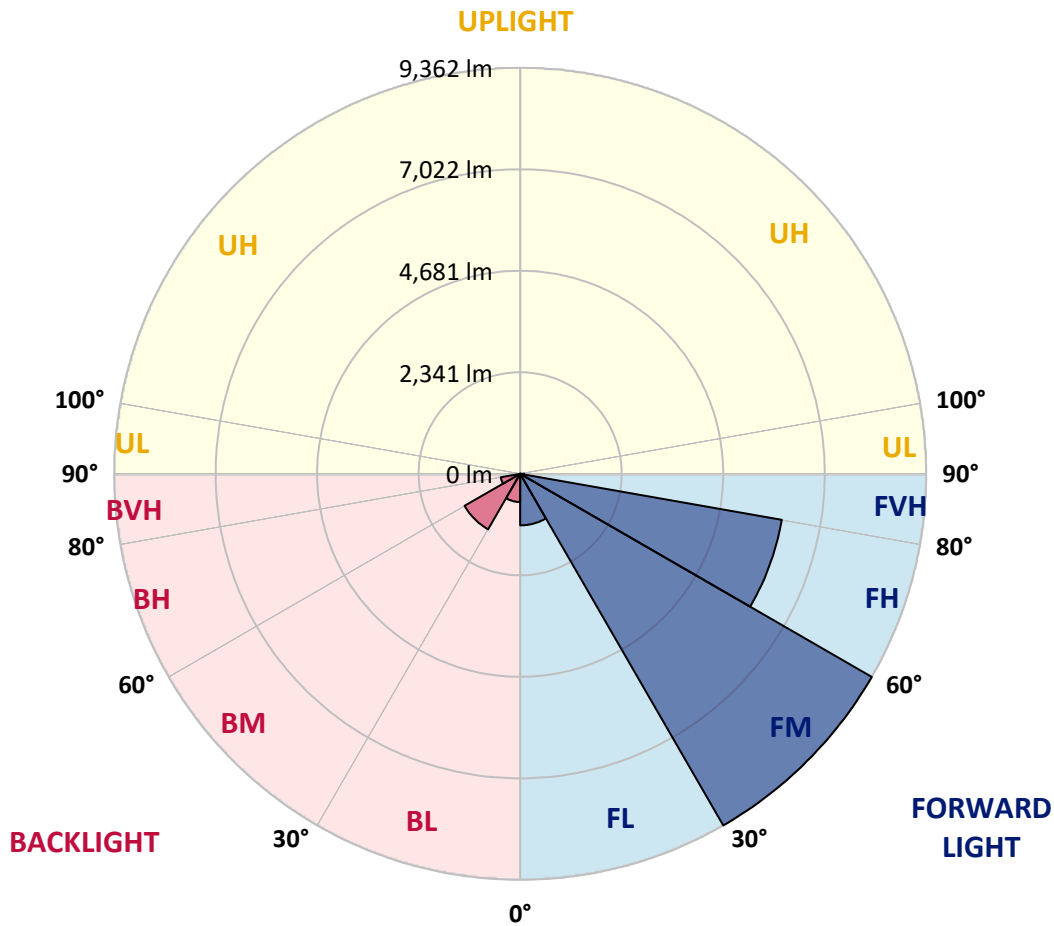
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1188.4	6.1			
FM (30°-60°)	9362.5	48.4			
FH (60°-80°)	6126.4	31.7			G3/7500
FVH (80°-90°)	86.7	0.4			G1/100
BL (0°-30°)	649.8	3.4	B2/1000		
BM (30°-60°)	1479.5	7.6	B2/2500		
BH (60°-80°)	454.2	2.3	B1/500		G1/500
BVH (80°-90°)	4.5	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2250.8	2250.8	2250.8	2250.8	2250.8	2250.8	2250.8	2250.8	2250.8	2250.8	2250.8
2.5°	2243.1	2258.6	2254.7	2250.8	2249.5	2252.1	2253.4	2252.1	2252.1	2252.1	2253.4
5°	2200.2	2213.2	2213.2	2222.3	2235.3	2250.8	2262.5	2265.1	2267.7	2271.6	2270.3
7.5°	2118.5	2128.9	2136.7	2166.5	2198.9	2240.5	2275.5	2293.6	2296.2	2310.5	2315.7
10°	2062.7	2075.7	2088.7	2119.8	2166.5	2228.8	2288.5	2332.6	2339.1	2372.8	2388.4
12.5°	2060.1	2073.1	2090.0	2123.7	2178.2	2244.4	2317.0	2380.6	2392.2	2441.5	2474.0
15°	2087.4	2102.9	2118.5	2160.0	2218.4	2298.8	2376.7	2455.8	2467.5	2537.5	2572.6
17.5°	2143.2	2163.9	2175.6	2217.1	2279.4	2368.9	2471.4	2562.2	2572.6	2654.3	2698.4
20°	2253.4	2278.1	2282.0	2315.7	2376.7	2472.7	2594.6	2707.5	2720.5	2813.9	2863.2
22.5°	2481.8	2516.8	2485.7	2502.5	2557.0	2653.0	2785.3	2928.0	2946.2	3052.6	3096.7
25°	2883.9	2933.2	2852.8	2824.3	2847.6	2947.5	3113.6	3293.9	3314.6	3400.3	3422.3
27.5°	3674.0	3610.4	3488.5	3369.1	3299.1	3356.1	3543.0	3766.1	3792.0	3875.1	3849.1
30°	4541.9	4486.1	4321.4	4056.7	3890.6	3881.6	4054.1	4303.2	4333.0	4412.2	4333.0
32.5°	5411.1	5357.9	5178.9	4853.2	4565.2	4422.5	4541.9	4818.2	4833.8	4884.4	4767.6
35°	6266.0	6211.5	6032.5	5699.1	5344.9	5020.6	4997.3	5308.6	5313.8	5367.0	5193.1
37.5°	7126.1	7080.7	6890.0	6563.1	6214.1	5766.6	5549.9	5773.0	5779.5	5831.4	5651.1
40°	7739.8	7759.2	7628.2	7375.2	7075.5	6586.5	6170.0	6267.3	6228.4	6315.3	6207.6
42.5°	8266.5	8305.4	8191.2	8064.1	7890.3	7459.6	6938.0	6921.2	6858.9	6905.6	6794.0
45°	8721.8	8754.3	8651.8	8621.9	8618.1	8315.8	7777.4	7676.2	7589.3	7580.2	7446.6
47.5°	8889.2	8951.5	8995.6	9095.5	9290.1	9162.9	8645.3	8488.3	8391.0	8319.7	8108.2
50°	8952.8	9018.9	9169.4	9460.0	9920.6	9975.0	9509.3	9332.9	9213.5	9083.8	8772.4
52.5°	8867.1	8985.2	9187.6	9676.7	10344.8	10626.3	10338.3	10183.9	10047.7	9836.2	9374.4
55°	8362.5	8480.5	8894.4	9674.1	10556.2	11082.9	11121.9	11053.1	10900.0	10566.6	9860.9
57.5°	7298.7	7473.8	8129.0	9344.5	10552.3	11476.0	11889.9	11939.2	11767.9	11290.5	10243.6
60°	5824.9	6062.3	6861.5	8614.2	10226.7	11688.8	12563.2	12809.7	12628.0	12004.0	10553.6
62.5°	4064.5	4339.5	5095.8	7469.9	9482.1	11535.7	13054.9	13510.2	13372.7	12642.3	10673.0
65°	2479.2	2567.4	3177.1	5878.1	8215.9	10894.8	13206.6	13889.0	13843.6	13032.8	10496.6
67.5°	1651.5	1725.4	1900.6	4030.8	6377.6	9614.4	12843.4	13822.9	13835.8	12969.2	9850.5
70°	995.0	1058.6	1172.8	2344.2	4133.2	7610.0	11718.6	12979.6	13054.9	12119.5	8625.8
72.5°	410.0	452.8	556.5	1062.5	2140.6	4829.9	9331.6	11143.9	11319.1	10190.4	6620.2
75°	232.2	254.3	326.9	533.2	928.9	2250.8	5652.4	7911.0	8169.2	7023.7	3982.8
77.5°	154.4	164.8	211.5	345.1	522.8	768.0	2415.6	4121.6	4614.5	3836.2	1724.1
80°	103.8	112.9	145.3	230.9	339.9	329.5	769.3	1526.9	1878.5	1318.1	420.3
82.5°	70.1	71.4	103.8	151.8	215.4	159.6	227.0	474.8	596.8	381.4	159.6
85°	40.2	38.9	76.5	88.2	96.0	66.2	68.8	142.7	186.8	160.9	90.8
87.5°	5.2	7.8	29.8	23.4	13.0	14.3	14.3	24.6	36.3	38.9	19.5
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2250.8	2250.8	2250.8	2250.8	2250.8	2250.8	2250.8	2250.8	2250.8	2250.8	2250.8
2.5°	2253.4	2252.1	2248.2	2244.4	2235.3	2230.1	2232.7	2230.1	2228.8	2230.1	2235.3
5°	2270.3	2266.4	2256.0	2243.1	2224.9	2202.8	2188.6	2167.8	2148.4	2136.7	2139.3
7.5°	2315.7	2311.8	2297.5	2261.2	2202.8	2110.7	2026.4	1952.5	1896.7	1864.2	1865.5
10°	2388.4	2381.9	2359.8	2279.4	2126.3	1925.2	1757.9	1619.0	1528.2	1485.4	1481.5
12.5°	2474.0	2466.2	2427.3	2262.5	1981.0	1667.0	1436.1	1281.7	1197.4	1159.8	1155.9
15°	2575.2	2564.8	2488.2	2182.1	1769.5	1381.6	1170.2	1054.7	1000.2	966.5	967.8
17.5°	2701.0	2682.8	2533.7	2061.4	1539.9	1163.7	1006.7	919.8	871.8	839.4	836.8
20°	2864.5	2834.6	2570.0	1917.4	1328.4	1026.2	896.4	823.8	787.5	758.9	753.7
22.5°	3092.8	3050.0	2614.1	1761.8	1179.3	931.5	814.7	761.5	731.7	699.3	694.1
25°	3375.6	3325.0	2668.6	1617.7	1076.8	849.7	755.0	710.9	675.9	638.3	634.4
27.5°	3771.3	3680.5	2733.4	1499.7	988.6	779.7	700.5	651.3	611.0	579.9	573.4
30°	4212.4	4063.2	2790.5	1428.3	908.1	714.8	629.2	579.9	542.3	520.2	516.3
32.5°	4630.1	4427.7	2828.1	1397.2	835.5	640.9	551.4	498.2	469.6	463.1	467.0
35°	5024.5	4757.2	2824.3	1367.4	770.6	566.9	474.8	420.3	398.3	402.2	402.2
37.5°	5478.6	5108.8	2797.0	1320.7	717.4	499.5	408.7	360.7	341.2	342.5	347.7
40°	6006.6	5514.9	2780.1	1232.4	659.0	437.2	354.2	315.2	301.0	295.8	294.5
42.5°	6569.6	5908.0	2782.7	1132.6	586.4	381.4	316.5	284.1	271.1	267.2	265.9
45°	7135.2	6282.9	2786.6	1028.8	509.8	338.6	289.3	262.1	254.3	249.1	249.1
47.5°	7667.1	6602.0	2714.0	917.2	434.6	306.2	267.2	249.1	242.6	236.1	236.1
50°	8162.7	6814.8	2538.8	787.5	374.9	280.2	250.4	237.4	230.9	224.4	224.4
52.5°	8548.0	6848.5	2249.5	653.8	333.4	260.8	240.0	228.3	220.5	214.1	212.8
55°	8719.2	6637.1	1838.3	529.3	301.0	243.9	229.6	217.9	208.9	202.4	201.1
57.5°	8675.1	6192.1	1433.5	425.5	269.8	227.0	216.7	208.9	198.5	188.1	186.8
60°	8458.5	5596.6	1080.7	354.2	241.3	208.9	202.4	195.9	181.6	166.1	163.5
62.5°	8083.6	4848.1	770.6	293.2	210.2	188.1	185.5	180.3	159.6	131.0	128.4
65°	7510.1	3938.6	518.9	243.9	180.3	164.8	166.1	157.0	129.7	97.3	94.7
67.5°	6672.1	2880.0	332.1	199.8	150.5	137.5	138.8	133.6	110.3	83.0	79.1
70°	5604.4	1907.1	216.7	151.8	120.7	106.4	114.2	115.5	93.4	67.5	64.9
72.5°	4108.6	1126.1	151.8	112.9	88.2	73.9	93.4	96.0	75.2	50.6	48.0
75°	2341.7	534.5	114.2	81.7	54.5	51.9	72.6	72.6	51.9	33.7	31.1
77.5°	983.4	223.1	80.4	53.2	31.1	29.8	49.3	45.4	25.9	15.6	15.6
80°	284.1	99.9	42.8	25.9	13.0	11.7	19.5	14.3	6.5	2.6	2.6
82.5°	111.6	44.1	16.9	10.4	5.2	5.2	2.6	0.0	0.0	0.0	0.0
85°	66.2	18.2	7.8	3.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.9	3.9	2.6	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)