

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: P964508

Luminaire Tested: **NAV-SB3C-727-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P964508  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB3C-727-U-T2U-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

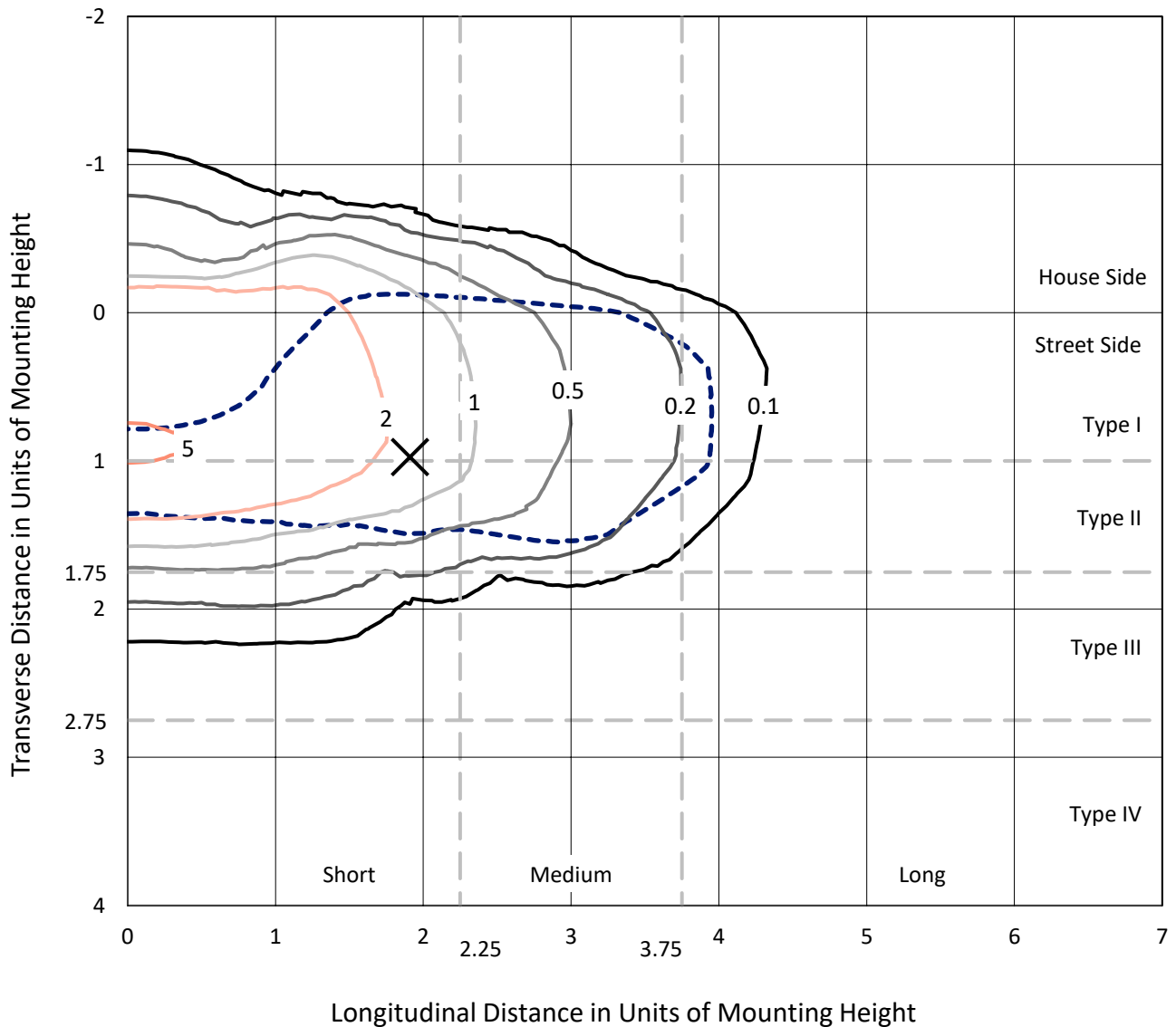
Lumens per Lamp: N/A  
Luminaire Lumens: 16326.2 lumens  
Efficiency: N/A  
Efficacy: 109.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 149.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
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

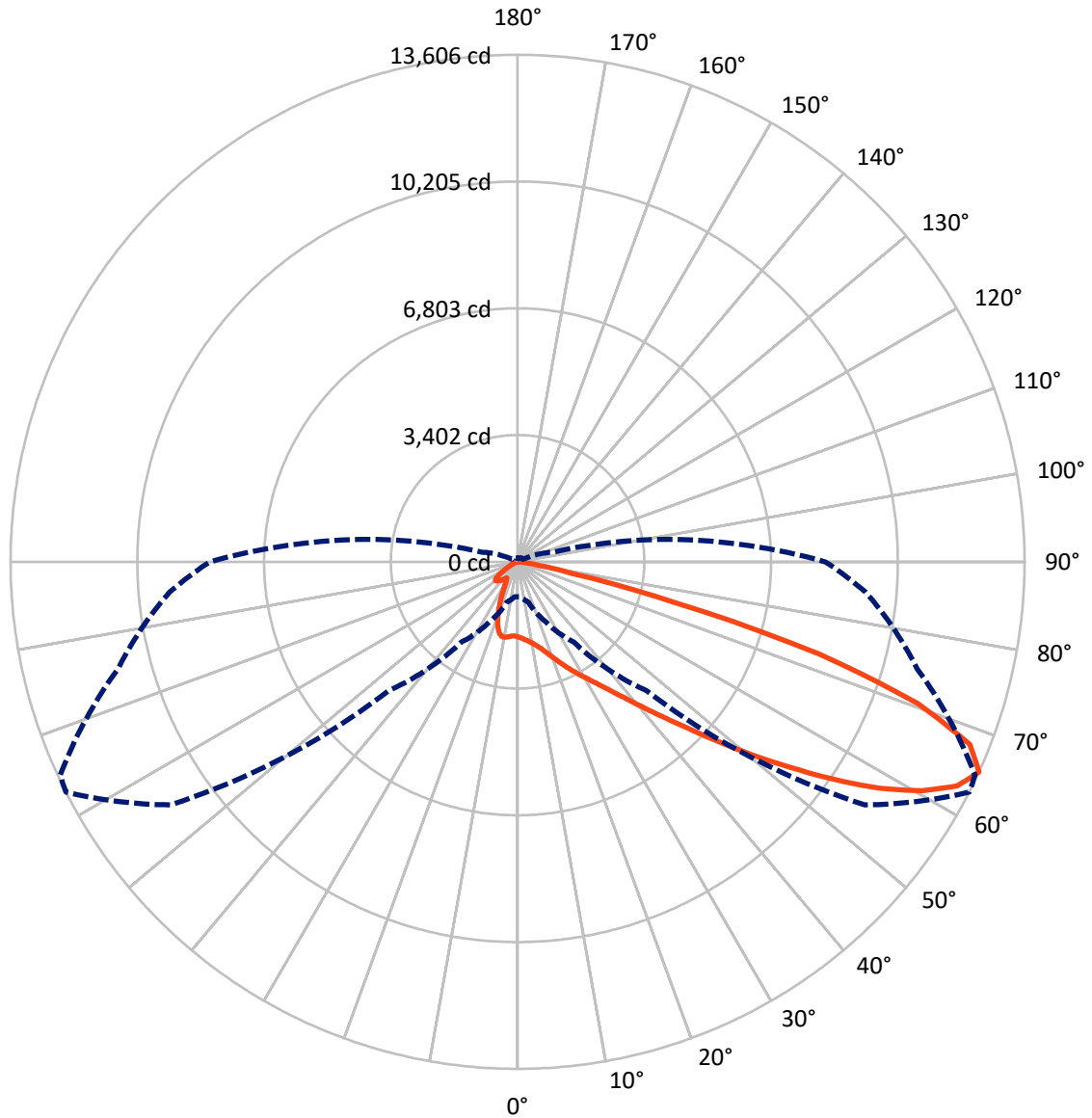
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2399.8	0.0	2399.8
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	13926.4	0.0	13926.4
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	16326.2	0.0	16326.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.8	1.2
10°-20°	526.8	3.2
20°-30°	917.2	5.6
30°-40°	1653.2	10.1
40°-50°	3278.8	20.1
50°-60°	4466.3	27.4
60°-70°	3564.9	21.8
70°-80°	1613.2	9.9
80°-90°	116.0	0.7
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°	16326.2	100.0
0°-180°	16326.2	100.0

**Coefficient of Utilization**



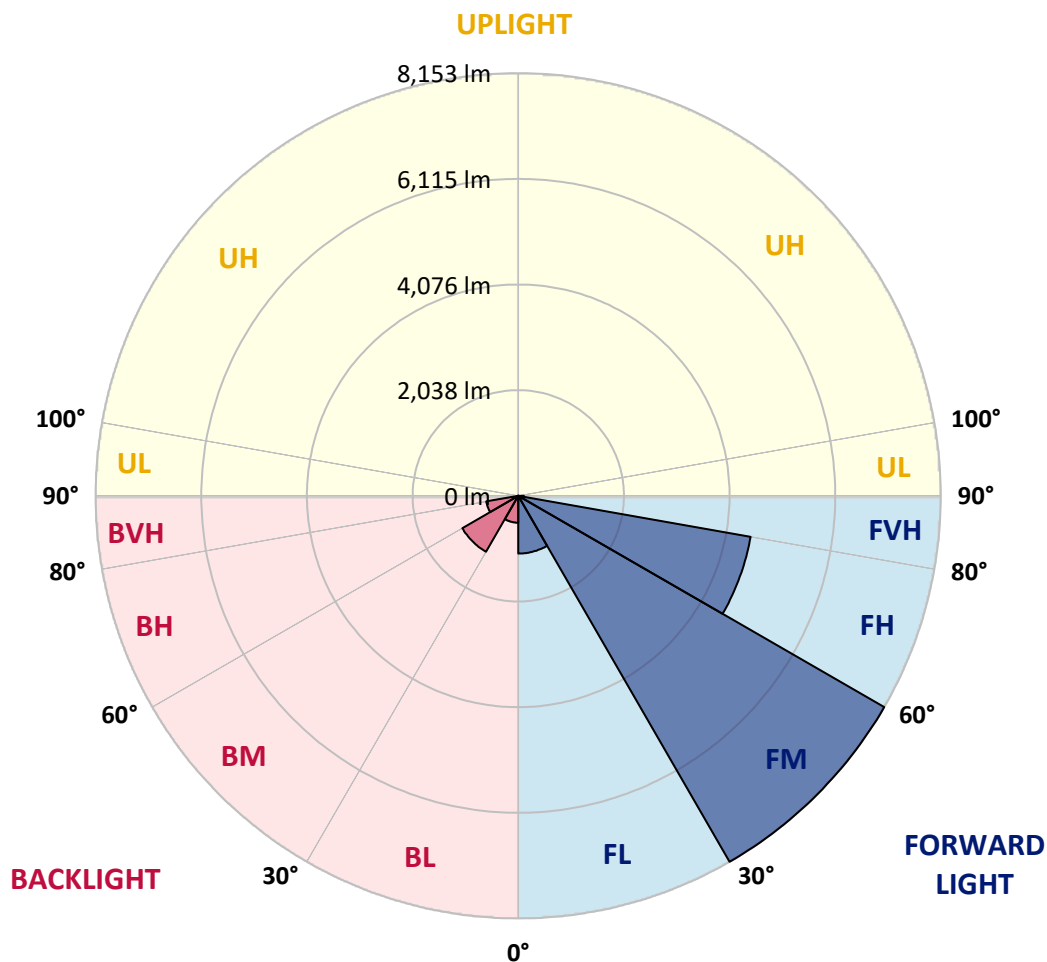
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 CATALOG NUMBER: NAV-SB3C-727-U-T2U-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1114.5	6.8			
FM (30°-60°)	8152.9	49.9			
FH (60°-80°)	4551.7	27.9			G2/5000
FVH (80°-90°)	107.4	0.7			G2/225
BL (0°-30°)	519.4	3.2	B2/1000		
BM (30°-60°)	1245.4	7.6	B2/2500		
BH (60°-80°)	626.5	3.8	B2/1000		G2/1000
BVH (80°-90°)	8.6	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2014.9	2014.9	2014.9	2014.9	2014.9	2014.9	2014.9	2014.9	2014.9	2014.9	2014.9
2.5°	2062.1	2056.6	2064.4	2061.0	2058.8	2054.3	2052.0	2049.8	2045.3	2041.9	2028.5
5°	2067.7	2064.4	2072.2	2079.0	2085.7	2092.4	2095.8	2100.3	2095.8	2086.8	2073.4
7.5°	2020.6	2018.3	2035.1	2055.4	2085.7	2111.6	2139.6	2155.4	2156.5	2153.1	2138.6
10°	2017.2	2011.6	2028.5	2053.2	2092.4	2138.6	2188.0	2221.6	2226.1	2240.8	2225.0
12.5°	2070.0	2064.4	2087.9	2114.9	2155.4	2203.6	2264.3	2311.5	2318.2	2338.4	2327.2
15°	2158.8	2150.9	2177.8	2212.7	2264.3	2319.4	2383.3	2426.1	2431.6	2456.4	2436.1
17.5°	2262.1	2254.2	2285.6	2322.8	2378.8	2454.2	2528.3	2575.4	2582.2	2597.9	2560.9
20°	2394.6	2384.5	2409.2	2442.9	2502.4	2592.2	2681.0	2748.4	2747.3	2747.3	2686.6
22.5°	2548.5	2532.8	2554.1	2581.1	2637.2	2746.2	2864.1	2943.8	2943.8	2912.3	2812.4
25°	2713.6	2697.8	2721.5	2746.2	2795.6	2919.1	3057.3	3156.1	3160.6	3106.7	2947.2
27.5°	2920.2	2900.0	2918.0	2947.2	2976.4	3102.2	3266.2	3380.8	3383.0	3299.9	3075.2
30°	3317.8	3260.5	3204.4	3173.0	3186.4	3311.1	3486.3	3613.2	3624.5	3509.9	3214.5
32.5°	4045.7	4034.4	3836.8	3578.4	3443.6	3535.7	3732.3	3885.1	3891.8	3744.6	3395.3
35°	5176.7	5163.2	4845.4	4353.4	3914.3	3836.8	4031.0	4211.8	4207.4	4041.2	3630.0
37.5°	6526.7	6514.4	6095.5	5437.2	4726.3	4291.6	4416.3	4606.1	4634.2	4416.3	3933.3
40°	7680.2	7634.2	7369.1	6734.6	5804.6	5046.4	4964.4	5090.2	5119.4	4861.1	4318.5
42.5°	8554.0	8514.8	8380.0	7983.5	7109.6	6162.8	5610.2	5658.5	5691.1	5381.0	4761.1
45°	9006.7	8997.7	9051.6	9014.6	8439.4	7533.0	6533.5	6332.4	6344.7	5957.3	5263.2
47.5°	9070.7	9066.2	9312.2	9660.3	9582.8	9078.5	7718.4	7172.5	7128.8	6607.6	5809.0
50°	8693.3	8684.3	9156.0	9808.6	10346.7	10376.9	9064.0	8119.3	8022.8	7280.4	6378.5
52.5°	7488.1	7485.9	8260.9	9347.0	10615.0	11513.6	10393.8	9159.4	8997.7	7992.4	6980.5
55°	5761.8	5803.4	6691.8	7975.6	10125.4	12060.6	11587.7	10314.1	10065.8	8709.0	7535.3
57.5°	4081.6	4142.2	5020.6	6163.9	8606.8	11737.1	12395.2	11470.9	11203.6	9423.3	8098.0
60°	2192.4	2246.3	3125.7	4490.4	6403.2	10530.8	12820.9	12475.0	12222.3	10101.8	8605.7
62.5°	1306.3	1324.2	1688.1	2898.9	4330.9	8045.2	12640.1	13239.9	13032.2	10671.2	9047.1
65°	937.9	941.3	1124.3	1770.1	2629.3	4888.0	11372.1	13606.1	13542.0	11100.2	9373.9
67.5°	789.6	787.3	863.7	1176.0	1791.5	2448.5	8715.8	13088.2	13360.1	11372.1	9559.3
70°	677.3	680.6	770.5	861.5	1346.6	1386.0	4333.2	11395.6	11975.2	11443.9	9548.1
72.5°	504.3	515.6	598.6	785.0	1016.5	953.6	1496.1	8449.6	9497.5	10782.4	9052.7
75°	356.1	361.6	421.2	660.4	758.1	694.1	763.7	4368.0	5711.3	8266.5	7409.5
77.5°	274.1	284.1	319.0	461.7	746.9	487.5	467.2	1511.8	2322.8	4993.6	5080.1
80°	148.2	166.3	230.2	333.5	524.5	344.8	231.3	602.0	787.3	2335.1	1958.8
82.5°	76.4	85.4	160.6	240.4	298.8	301.0	114.6	250.5	324.6	721.1	268.4
85°	30.3	37.1	107.8	132.5	153.9	148.2	51.7	101.1	116.8	199.9	82.0
87.5°	6.8	11.3	39.4	30.3	29.2	31.5	12.4	23.6	22.4	23.6	14.6
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°	2014.9	2014.9	2014.9	2014.9	2014.9	2014.9	2014.9	2014.9	2014.9	2014.9	2014.9
2.5°	2027.3	2022.8	2010.4	1997.0	1981.2	1972.3	1966.7	1965.5	1957.6	1952.1	1957.6
5°	2061.0	2056.6	2032.9	2004.9	1974.6	1951.0	1928.4	1908.2	1879.0	1873.4	1871.2
7.5°	2128.4	2116.0	2077.9	2039.6	1982.4	1913.9	1830.8	1735.3	1649.9	1624.1	1611.7
10°	2211.5	2194.6	2146.4	2079.0	1952.1	1765.7	1564.6	1378.1	1229.9	1188.3	1172.6
12.5°	2305.8	2291.3	2227.2	2102.6	1825.1	1487.1	1179.4	947.9	804.2	768.2	758.1
15°	2418.2	2396.9	2308.1	2066.6	1598.3	1129.9	809.9	672.8	621.2	614.4	607.6
17.5°	2537.3	2502.4	2379.9	1937.5	1292.7	803.1	625.6	586.3	563.9	557.1	553.7
20°	2646.1	2601.2	2422.7	1742.0	966.0	625.6	560.5	534.6	514.4	506.6	502.0
22.5°	2755.1	2691.1	2422.7	1475.8	724.5	554.8	514.4	490.9	467.2	457.2	451.5
25°	2868.6	2783.2	2379.9	1179.4	582.9	508.8	470.6	444.7	424.6	412.2	407.7
27.5°	2978.6	2860.7	2282.3	898.5	518.9	468.3	430.2	405.5	386.3	377.4	377.4
30°	3083.1	2937.0	2145.2	681.7	477.3	429.1	393.1	371.8	352.7	343.7	344.8
32.5°	3224.6	3033.7	1999.3	559.3	441.4	392.0	359.4	339.2	322.4	315.6	315.6
35°	3421.1	3176.3	1873.4	549.2	411.1	361.6	329.1	310.0	293.2	287.5	287.5
37.5°	3699.7	3406.6	1807.2	616.6	386.3	334.7	304.4	284.1	268.4	263.9	262.8
40°	4043.4	3718.8	1843.2	684.0	369.5	311.1	281.9	261.7	248.3	242.6	241.5
42.5°	4451.1	4104.1	2041.9	735.6	358.3	290.9	260.6	238.1	229.1	226.8	226.8
45°	4919.5	4527.5	2346.3	790.7	340.3	271.8	239.2	222.4	215.7	214.5	213.4
47.5°	5451.9	4992.5	2698.9	859.3	322.4	253.8	222.4	211.2	205.5	203.3	203.3
50°	5979.7	5460.8	3061.8	897.4	307.7	237.0	208.9	199.9	195.5	194.3	194.3
52.5°	6532.3	5942.6	3354.9	861.5	295.4	223.6	197.7	191.0	186.4	185.3	185.3
55°	7059.1	6332.4	3405.5	731.1	270.7	210.0	185.3	181.9	176.3	176.3	175.2
57.5°	7512.8	6527.8	3048.2	536.9	246.0	189.8	172.9	169.6	165.1	164.0	162.9
60°	7929.6	6471.6	2353.0	361.6	219.0	169.6	157.2	155.0	150.5	144.9	143.8
62.5°	8164.3	6224.6	1609.5	235.9	192.1	148.2	139.3	138.2	128.0	116.8	114.6
65°	8253.0	5716.9	1004.1	171.9	160.6	126.9	120.1	118.0	103.3	91.0	89.9
67.5°	8175.5	4881.3	506.6	135.9	126.9	105.6	98.8	98.8	88.8	77.5	76.4
70°	7865.5	3659.2	213.4	109.0	97.7	80.9	80.9	85.4	75.2	62.9	61.8
72.5°	7192.7	2461.9	113.5	83.1	73.0	57.3	66.3	69.6	59.6	47.2	47.2
75°	5718.1	1501.6	78.6	61.8	46.0	40.4	50.5	52.8	40.4	31.5	30.3
77.5°	3910.9	862.6	52.8	39.4	29.2	23.6	34.8	32.6	21.3	14.6	15.7
80°	1717.3	359.4	30.3	17.9	11.3	9.0	12.4	9.0	6.8	4.5	4.5
82.5°	201.0	84.3	11.3	6.8	4.5	2.3	1.1	0.0	0.0	0.0	0.0
85°	41.5	10.1	5.6	2.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.9	2.3	1.1	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)