

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: P959899

Luminaire Tested: **NAV-SB1B-750-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P959899  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB1B-750-U-T4W  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 5000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6096.7 lumens  
Efficiency: N/A  
Efficacy: 153.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

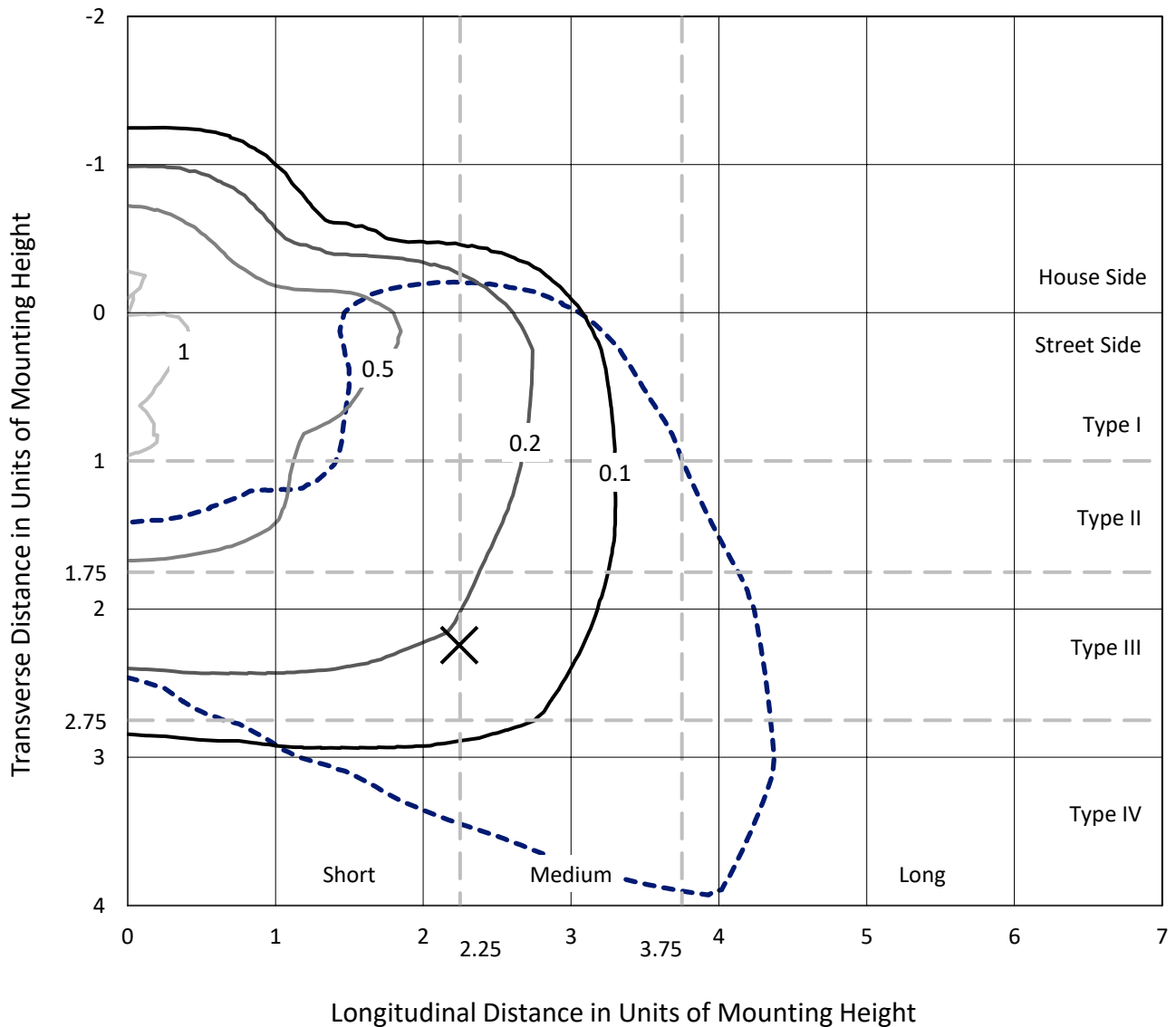
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

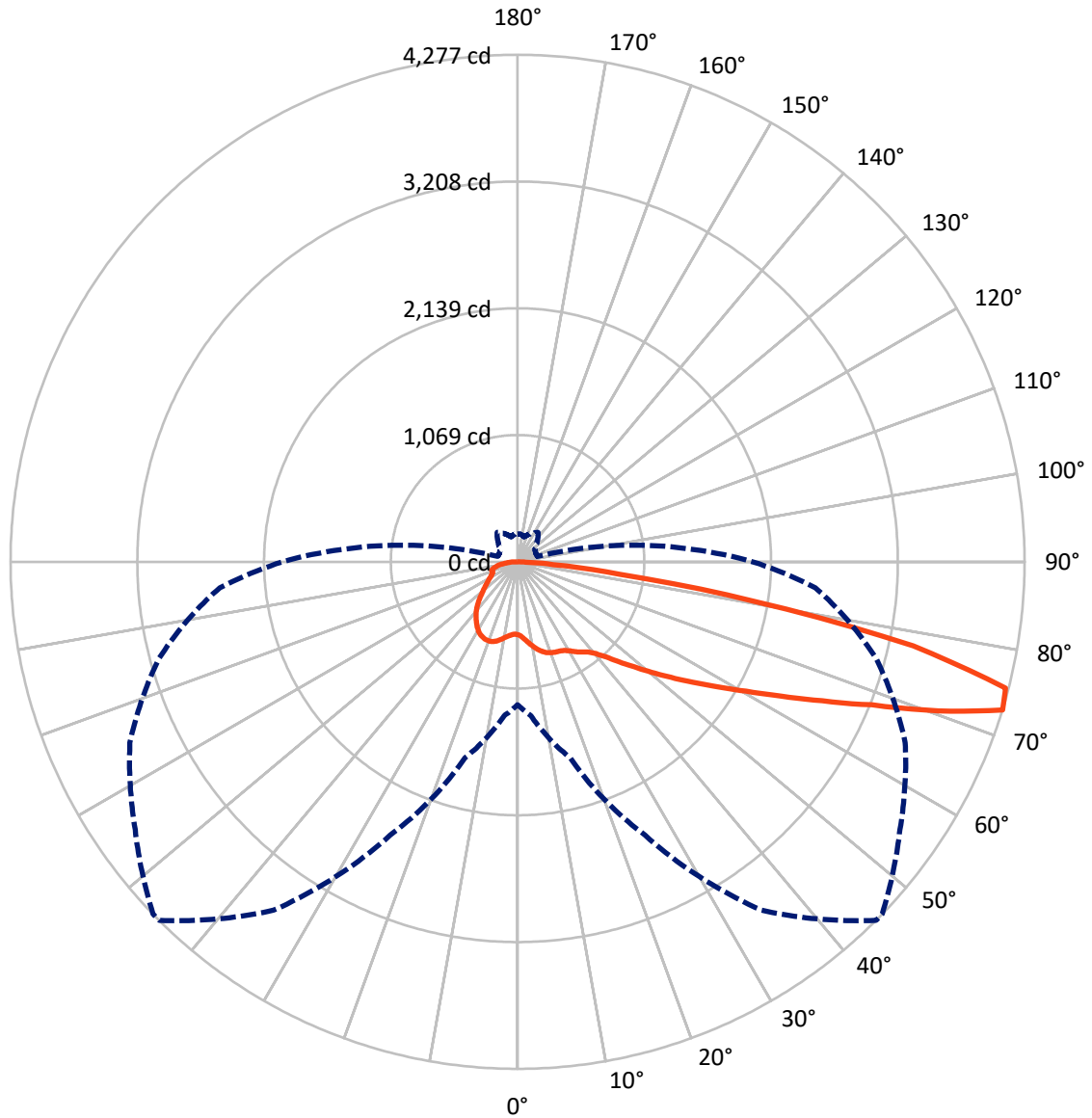
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1378.2	0.0	1378.2
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	4718.4	0.0	4718.4
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	6096.7	0.0	6096.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.6	1.0
10°-20°	208.7	3.4
20°-30°	363.1	6.0
30°-40°	520.5	8.5
40°-50°	732.9	12.0
50°-60°	1122.5	18.4
60°-70°	1626.1	26.7
70°-80°	1298.6	21.3
80°-90°	161.7	2.7
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°	6096.7	100.0
0°-180°	6096.7	100.0

**Coefficient of Utilization**

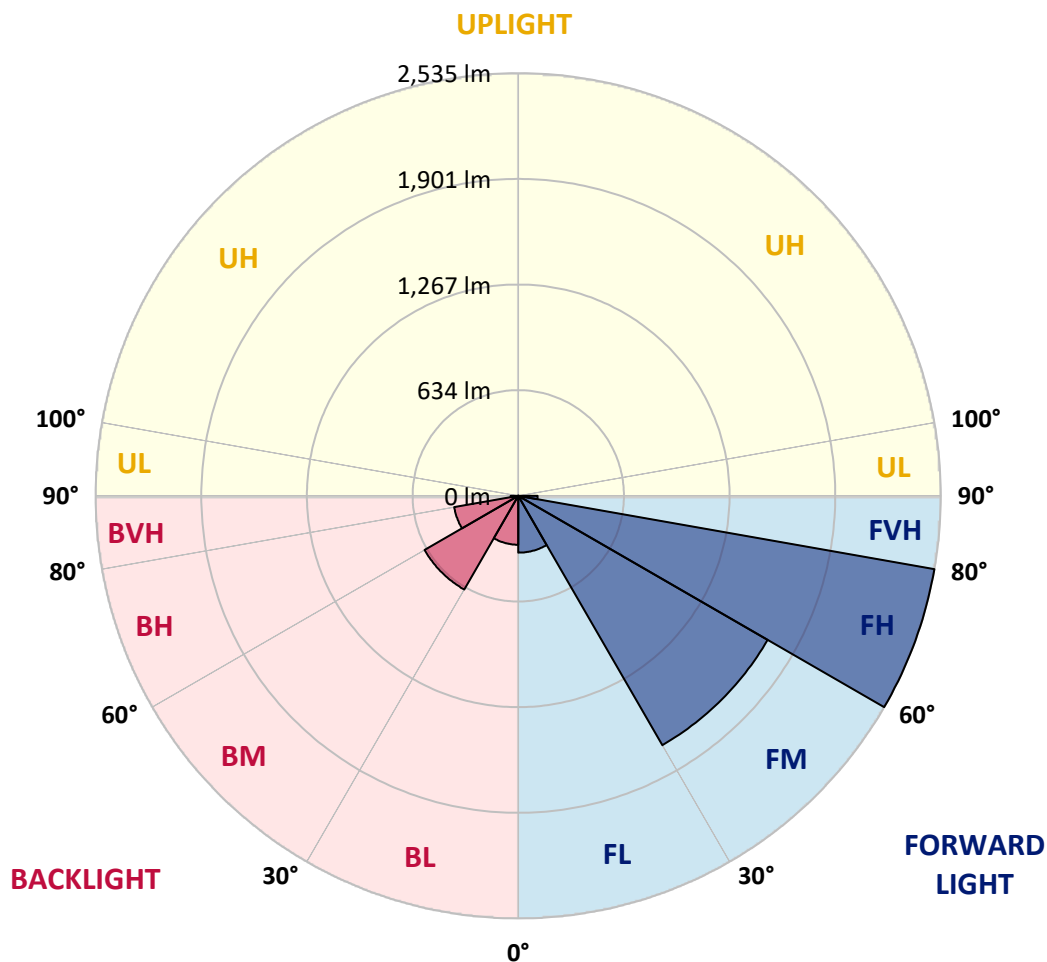


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	340.9	5.6			
FM (30°-60°)	1726.9	28.3			
FH (60°-80°)	2534.6	41.6			G2/5000
FVH (80°-90°)	116.0	1.9			G2/225
BL (0°-30°)	293.4	4.8	B1/500		
BM (30°-60°)	649.0	10.6	B1/1000		
BH (60°-80°)	390.1	6.4	B1/500		G1/500
BVH (80°-90°)	45.7	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	615.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0
2.5°	639.1	643.3	639.5	635.9	634.3	630.2	629.9	627.2	625.7	621.2	619.8
5°	683.8	689.2	682.9	675.8	669.3	659.1	657.7	650.4	642.1	632.4	626.9
7.5°	734.2	739.0	731.6	721.0	709.8	692.8	692.5	679.0	665.7	649.4	640.1
10°	778.2	784.6	774.7	760.2	746.1	726.8	724.6	709.1	692.5	671.3	657.1
12.5°	817.0	821.5	811.9	794.3	777.9	758.6	755.7	738.7	720.1	696.0	678.0
15°	847.9	853.6	840.8	821.8	804.5	785.6	783.0	767.6	749.0	723.5	700.5
17.5°	868.1	872.9	859.8	838.6	821.8	806.2	804.2	791.4	775.0	749.3	724.6
20°	875.9	881.0	867.2	845.6	830.2	818.1	817.0	807.7	796.5	773.1	748.0
22.5°	883.6	888.4	870.3	847.9	834.4	826.7	826.4	820.3	815.8	796.5	772.1
25°	914.7	915.9	891.9	859.5	840.2	833.4	833.1	832.8	834.8	819.6	798.1
27.5°	941.7	941.4	920.8	890.3	860.4	846.2	845.9	849.2	855.3	842.8	825.1
30°	981.1	977.6	953.2	921.5	894.1	872.3	870.3	867.5	872.3	862.3	852.1
32.5°	1065.0	1053.8	1014.2	957.8	922.1	905.4	902.8	884.8	886.7	880.7	875.6
35°	1185.1	1170.3	1117.7	1026.4	956.7	933.0	931.7	908.9	905.1	899.6	901.5
37.5°	1328.0	1309.7	1248.3	1126.1	1016.5	965.1	963.2	942.6	926.9	921.1	932.0
40°	1471.6	1448.4	1397.7	1247.4	1104.5	1018.7	1012.6	981.5	963.5	953.9	977.0
42.5°	1611.0	1591.7	1548.4	1383.5	1213.1	1097.2	1083.6	1030.3	1016.8	1007.8	1049.6
45°	1734.3	1717.0	1685.2	1529.1	1340.2	1203.8	1190.5	1103.5	1099.3	1099.3	1159.8
47.5°	1834.5	1830.6	1796.9	1677.5	1490.2	1325.1	1302.4	1205.3	1216.6	1233.9	1316.1
50°	1945.7	1935.0	1899.1	1823.6	1666.5	1464.2	1445.6	1330.2	1372.4	1419.9	1542.2
52.5°	2047.7	2053.6	2013.4	1975.8	1865.7	1619.3	1586.6	1477.7	1568.6	1647.3	1807.2
55°	2152.8	2153.1	2141.8	2136.7	2074.4	1790.9	1754.9	1655.0	1799.5	1897.2	2116.2
57.5°	2251.4	2252.0	2268.7	2314.0	2316.6	1988.7	1947.9	1872.8	2056.1	2155.7	2434.8
60°	2339.4	2343.9	2389.5	2495.5	2529.5	2215.4	2176.9	2130.0	2321.4	2421.6	2769.8
62.5°	2369.0	2385.3	2486.9	2637.4	2739.9	2493.5	2455.7	2427.7	2600.2	2693.3	3049.8
65°	2318.9	2356.4	2552.7	2754.7	2956.4	2824.1	2786.5	2755.9	2889.9	2977.5	3279.8
67.5°	2195.9	2244.3	2548.8	2877.7	3219.1	3221.7	3186.6	3115.0	3200.5	3234.2	3354.6
70°	1871.8	1944.3	2324.3	2923.6	3520.7	3765.3	3731.6	3547.3	3510.4	3347.2	3143.9
72.5°	1206.0	1303.6	1711.5	2545.6	3587.8	4277.0	4275.1	3937.5	3608.3	3127.6	2521.5
75°	440.0	499.7	795.2	1597.8	3011.6	4251.0	4263.5	3870.7	3293.9	2415.8	1570.8
77.5°	160.3	175.4	259.5	614.1	1852.2	3410.8	3436.8	3094.5	2344.5	1212.4	622.4
80°	84.2	92.5	132.9	238.3	793.7	2025.6	2066.4	1839.1	1102.0	365.2	186.5
82.5°	46.5	50.4	74.5	129.5	357.4	866.2	890.6	726.5	387.7	154.8	77.1
85°	25.0	26.6	35.1	70.6	174.8	300.3	307.0	217.1	154.5	90.9	37.2
87.5°	7.4	9.0	11.6	22.4	68.4	67.4	69.1	43.0	61.0	45.9	12.2
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°	615.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0
2.5°	618.0	616.9	613.5	611.8	609.9	609.6	611.2	611.5	611.8	612.1	613.5
5°	623.7	620.5	617.3	615.4	616.0	616.3	619.5	621.8	623.4	624.6	625.4
7.5°	635.0	632.4	626.9	626.6	627.6	630.5	634.7	639.8	642.7	644.9	645.5
10°	651.7	646.9	640.4	641.3	643.3	647.5	656.1	660.3	665.1	669.3	668.4
12.5°	668.7	664.5	657.1	657.7	660.9	668.4	676.7	681.8	685.0	688.3	689.5
15°	690.8	683.5	675.4	675.4	681.2	689.2	693.1	697.3	699.2	702.7	704.0
17.5°	713.6	704.0	693.4	692.8	699.9	703.7	705.9	706.5	707.2	711.0	712.4
20°	736.5	725.8	710.7	709.5	711.0	710.4	710.1	709.5	710.4	715.2	717.2
22.5°	758.9	746.7	725.8	720.1	715.6	709.5	709.1	708.8	709.5	714.3	717.5
25°	785.3	770.5	742.5	725.2	710.1	701.7	702.7	703.0	703.7	707.6	712.7
27.5°	813.8	797.4	758.0	723.5	696.3	690.5	688.9	689.8	692.1	698.2	704.3
30°	842.4	823.2	772.1	717.2	679.0	671.0	665.7	668.0	675.1	681.2	688.0
32.5°	868.5	849.2	783.3	703.0	656.8	644.3	637.6	640.4	647.5	649.7	657.7
35°	898.9	877.1	788.1	680.6	632.7	613.5	604.4	600.2	603.8	601.6	608.6
37.5°	933.0	910.2	787.5	651.0	604.4	582.3	569.8	554.0	546.6	538.9	543.8
40°	983.4	950.7	779.8	615.4	569.4	549.2	526.7	500.1	483.4	468.2	469.2
42.5°	1052.2	1006.9	765.7	576.2	529.9	511.0	480.4	449.4	423.0	397.9	395.6
45°	1154.6	1080.5	748.0	534.4	487.2	468.6	435.5	400.5	370.6	338.6	334.7
47.5°	1302.4	1179.4	731.3	486.9	442.3	425.3	395.3	363.0	327.6	296.4	292.9
50°	1505.3	1321.3	715.9	440.6	397.9	385.1	361.3	328.2	292.5	267.5	265.9
52.5°	1763.5	1514.3	709.5	396.0	356.5	351.7	332.7	301.9	268.1	247.0	245.4
55°	2059.9	1745.3	709.5	353.3	320.2	321.8	308.6	280.0	250.8	231.9	229.9
57.5°	2362.5	1979.1	696.6	313.8	289.4	296.1	287.7	262.7	236.4	216.8	213.6
60°	2641.3	2174.9	644.6	277.8	262.1	272.6	267.2	245.7	213.6	197.2	194.6
62.5°	2855.5	2285.4	544.4	249.2	239.5	251.8	248.9	223.2	209.4	202.6	200.4
65°	2962.8	2267.4	416.3	223.9	220.7	239.5	233.5	232.6	221.6	213.9	211.4
67.5°	2897.0	2112.6	301.9	205.2	209.7	228.4	251.8	255.6	235.4	220.3	217.7
70°	2608.2	1832.6	224.8	187.6	195.9	228.7	287.1	267.5	230.9	213.3	210.3
72.5°	1984.2	1366.5	174.4	168.9	177.9	230.3	302.9	262.1	218.1	235.7	233.8
75°	1134.7	750.3	140.0	146.2	155.5	215.1	294.8	247.9	208.1	216.5	216.5
77.5°	432.7	288.4	115.6	123.6	124.9	187.9	282.0	247.0	198.1	193.3	176.3
80°	150.0	112.7	95.7	98.3	96.7	167.0	270.4	214.8	162.2	145.1	140.3
82.5°	61.3	56.2	75.7	72.6	68.8	129.8	218.4	175.7	132.6	117.3	115.9
85°	26.6	35.7	50.1	44.0	39.9	89.9	175.1	148.7	112.1	96.7	96.4
87.5°	5.4	13.5	21.2	19.9	20.6	60.1	124.3	105.7	79.3	59.4	46.5
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)