

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: P883236

Luminaire Tested: **NAV-SB3C-727-U-T2-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883236
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-727-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14865 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

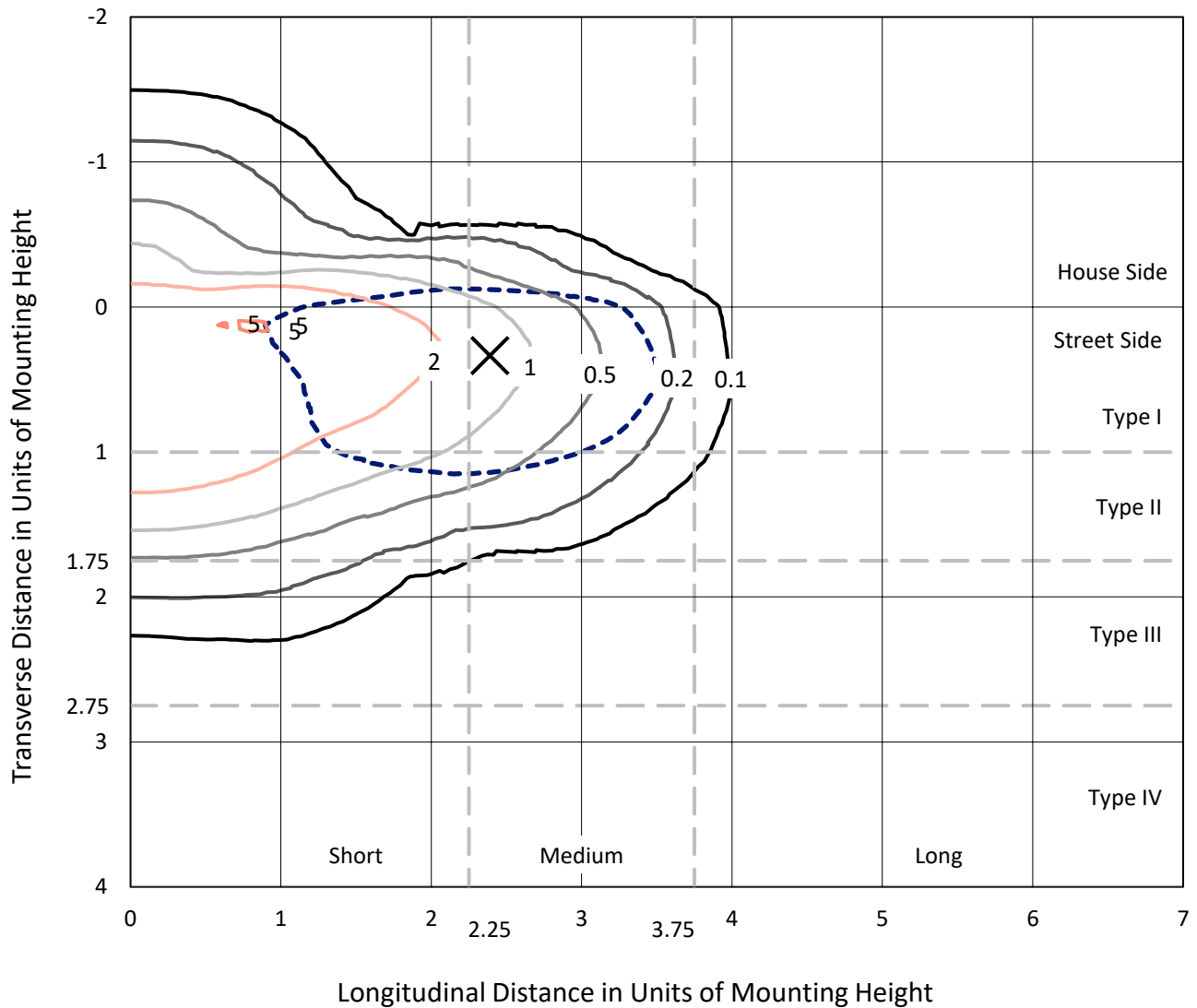
Input Watts (W): 149.1
Input Voltage (V): 120.0
Input Current (Ain): 1.259
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

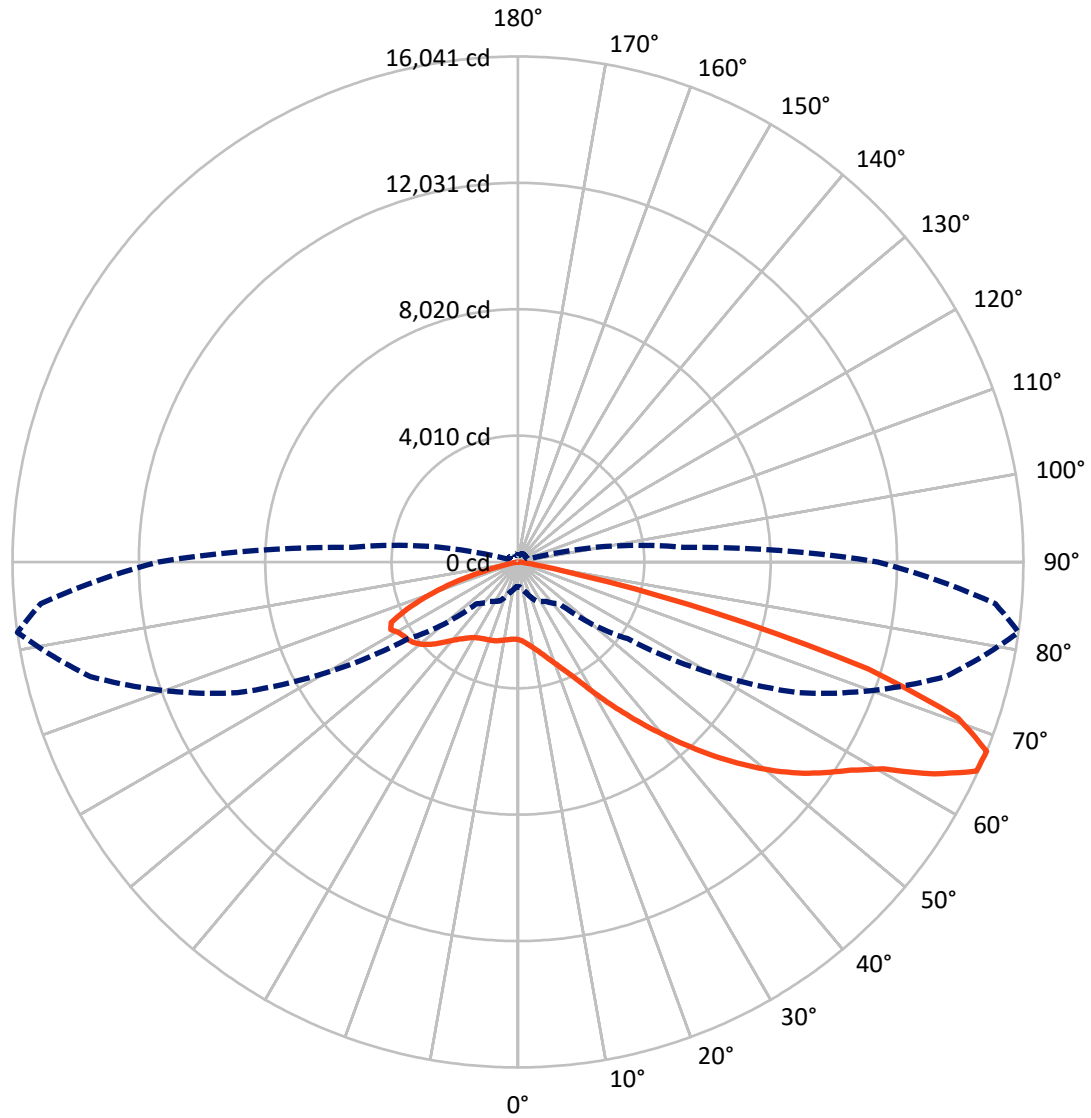
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2692.7	0.0	2692.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	12172.3	0.0	12172.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	14865.0	0.0	14865.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.4	1.5
10°-20°	570.1	3.8
20°-30°	913.2	6.1
30°-40°	1614.8	10.9
40°-50°	2829.2	19.0
50°-60°	3773.4	25.4
60°-70°	3512.9	23.6
70°-80°	1348.2	9.1
80°-90°	83.7	0.6
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°	14865.0	100.0
0°-180°	14865.0	100.0

Coefficient of Utilization



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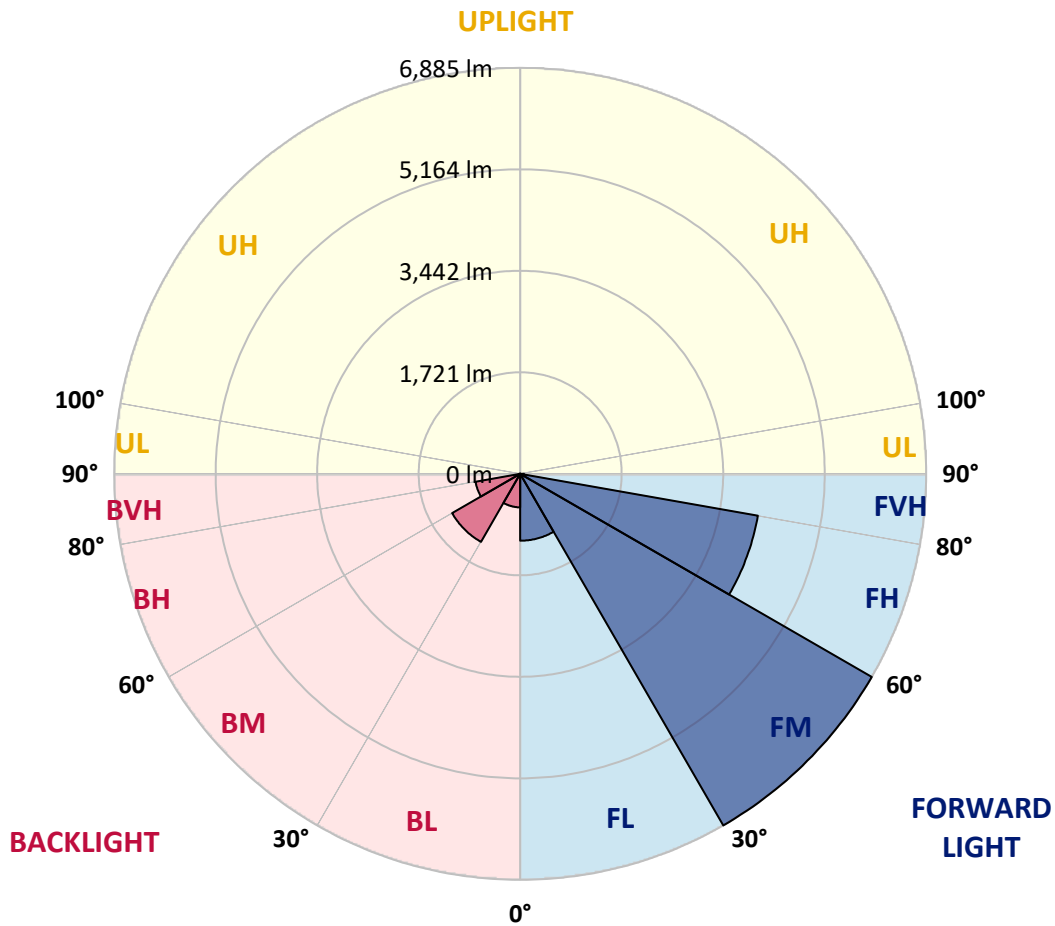
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1134.0	7.6			
FM (30°-60°)	6884.9	46.3			
FH (60°-80°)	4092.6	27.5			G2/5000
FVH (80°-90°)	60.9	0.4			G1/100
BL (0°-30°)	568.7	3.8	B2/1000		
BM (30°-60°)	1332.6	9.0	B2/2500		
BH (60°-80°)	768.5	5.2	B2/1000		G2/1000
BVH (80°-90°)	22.9	0.2			G1/100
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2462.6	2462.6	2462.6	2462.6	2462.6	2462.6	2462.6	2462.6	2462.6	2462.6	2462.6
2.5°	2602.8	2617.8	2609.3	2605.0	2597.5	2586.8	2578.2	2551.5	2523.6	2505.4	2499.0
5°	2655.3	2670.3	2669.2	2673.5	2678.8	2682.0	2679.9	2649.9	2610.3	2579.3	2561.1
7.5°	2610.3	2627.4	2641.4	2662.8	2700.2	2739.8	2759.1	2752.7	2712.0	2669.2	2646.7
10°	2483.0	2501.2	2534.3	2584.6	2663.8	2749.5	2821.2	2854.3	2828.7	2781.6	2750.5
12.5°	2249.6	2267.8	2333.1	2442.3	2575.0	2723.8	2860.8	2949.6	2956.0	2908.9	2872.5
15°	1987.4	2005.6	2075.2	2212.2	2414.5	2653.1	2882.2	3050.2	3106.9	3066.2	3022.4
17.5°	1824.8	1840.8	1893.3	2003.5	2214.3	2511.9	2874.7	3157.2	3286.7	3254.6	3202.2
20°	1775.5	1789.4	1814.1	1891.1	2066.6	2365.2	2825.4	3257.8	3480.4	3462.2	3403.4
22.5°	1828.0	1840.8	1848.3	1882.6	1992.8	2268.9	2763.4	3360.6	3705.2	3707.3	3635.6
25°	1948.9	1961.8	1953.2	1974.6	2022.8	2238.9	2739.8	3481.5	3987.7	4011.3	3929.9
27.5°	2148.0	2149.0	2128.7	2127.6	2135.1	2283.9	2764.4	3611.0	4344.1	4388.0	4287.4
30°	2547.2	2531.1	2453.0	2368.4	2329.9	2418.7	2832.9	3764.0	4764.7	4842.8	4716.6
32.5°	3162.6	3139.0	2995.6	2793.3	2590.0	2636.0	2956.0	3938.5	5222.8	5364.1	5209.9
35°	3830.4	3824.0	3674.1	3373.4	3018.1	2945.3	3156.1	4167.5	5722.6	5947.3	5764.3
37.5°	4451.1	4447.9	4362.3	4008.1	3575.7	3376.6	3477.2	4467.2	6257.7	6583.1	6366.9
40°	5018.4	5028.0	4942.4	4625.6	4190.0	3929.9	3913.9	4837.5	6852.8	7275.5	7018.6
42.5°	5508.5	5519.2	5432.5	5198.2	4796.8	4542.1	4450.1	5291.3	7433.9	8019.3	7715.4
45°	5841.4	5907.7	5894.9	5707.6	5419.7	5155.4	5094.4	5860.6	8096.4	8808.1	8451.7
47.5°	5935.6	5996.6	6092.9	6118.6	5943.1	5683.0	5755.8	6546.7	8766.4	9597.9	9192.3
50°	5703.3	5760.0	5960.2	6226.7	6348.7	6268.4	6399.0	7281.9	9452.4	10385.6	9919.0
52.5°	5245.3	5303.1	5555.6	5977.3	6475.0	6727.5	7044.3	8006.5	10117.0	11131.6	10607.2
55°	4582.8	4643.8	4968.1	5445.4	6234.2	6917.0	7582.7	8730.0	10726.0	11802.6	11227.9
57.5°	3681.6	3726.6	4063.7	4731.5	5628.4	6728.6	7979.7	9519.8	11299.6	12461.9	11843.3
60°	2399.5	2439.1	2830.8	3575.7	4624.5	6099.3	8058.9	10400.6	12061.6	13319.2	12672.7
62.5°	1595.7	1622.5	1854.7	2401.6	3256.7	4891.0	7595.5	11103.8	13179.0	14811.1	14095.1
65°	1094.9	1121.6	1353.9	1734.9	2104.1	3235.3	6263.1	11010.7	14191.4	15995.8	15149.3
67.5°	781.3	803.8	1000.7	1360.3	1523.0	1879.3	4245.7	9820.5	14045.9	16040.8	15206.0
70°	559.7	572.6	735.3	1059.5	1210.4	1129.1	2361.0	7511.0	12298.2	14812.2	14048.0
72.5°	391.7	396.0	510.5	807.0	975.0	824.1	1123.8	5007.7	9301.5	11626.0	10890.8
75°	265.4	270.8	343.5	591.8	782.3	629.3	595.1	2685.2	5460.4	6435.4	5768.6
77.5°	162.7	164.8	221.5	404.6	585.4	479.5	383.1	1137.7	2112.7	2074.1	1768.0
80°	92.0	92.0	141.3	251.5	399.2	309.3	268.6	483.7	668.9	587.6	518.0
82.5°	51.4	52.4	102.7	156.3	264.3	183.0	147.7	223.7	289.0	255.8	222.6
85°	21.4	23.5	63.1	73.8	126.3	91.0	59.9	94.2	107.0	95.3	69.6
87.5°	2.1	3.2	19.3	13.9	15.0	18.2	8.6	18.2	15.0	15.0	10.7
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°	2462.6	2462.6	2462.6	2462.6	2462.6	2462.6	2462.6	2462.6	2462.6	2462.6	2462.6
2.5°	2478.7	2462.6	2422.0	2374.9	2312.8	2282.8	2242.2	2214.3	2190.8	2192.9	2171.5
5°	2526.8	2486.2	2395.2	2281.8	2140.5	2039.9	1932.9	1859.0	1799.1	1786.2	1757.3
7.5°	2593.2	2529.0	2369.5	2165.1	1926.4	1745.6	1584.0	1480.1	1406.3	1382.8	1359.2
10°	2678.8	2585.7	2336.3	2018.5	1674.9	1444.8	1271.4	1190.1	1139.8	1122.7	1109.8
12.5°	2778.3	2651.0	2292.5	1839.7	1415.9	1194.4	1084.2	1043.5	1027.4	1022.1	1018.9
15°	2903.6	2732.3	2226.1	1627.8	1196.5	1041.3	994.3	988.9	991.0	988.9	987.8
17.5°	3052.3	2821.2	2118.0	1409.5	1048.8	963.2	946.1	950.4	955.7	954.7	952.5
20°	3215.0	2908.9	1979.9	1215.8	948.2	907.6	897.9	902.2	906.5	904.4	903.3
22.5°	3400.2	3003.1	1826.9	1064.9	880.8	856.2	845.5	846.6	846.6	842.3	840.1
25°	3621.7	3106.9	1666.4	957.9	829.4	810.2	797.3	793.0	786.6	773.8	771.6
27.5°	3886.0	3217.1	1512.3	882.9	788.8	770.6	755.6	744.9	728.8	707.4	705.3
30°	4183.6	3350.9	1381.7	835.9	756.7	738.5	721.3	705.3	681.7	655.0	652.8
32.5°	4533.5	3494.3	1286.4	804.8	727.8	708.5	688.2	668.9	643.2	616.5	617.5
35°	4950.9	3667.7	1230.8	783.4	705.3	679.6	657.1	635.7	616.5	592.9	590.8
37.5°	5403.7	3851.8	1213.7	772.7	690.3	650.7	625.0	610.0	607.9	594.0	592.9
40°	5899.2	4070.1	1226.5	766.3	674.3	622.9	595.1	591.8	597.2	572.6	573.6
42.5°	6423.6	4329.1	1247.9	758.8	651.8	595.1	568.3	568.3	564.0	529.8	529.8
45°	6990.8	4627.7	1269.3	740.6	625.0	567.2	546.9	539.4	521.2	488.0	487.0
47.5°	7562.3	4931.7	1285.4	707.4	592.9	543.7	525.5	508.4	481.6	451.6	450.6
50°	8104.9	5204.6	1268.2	658.2	556.5	521.2	501.9	478.4	449.5	429.2	426.0
52.5°	8589.8	5441.1	1195.5	600.4	518.0	497.7	480.5	455.9	432.4	411.0	408.8
55°	9011.4	5632.7	1067.0	545.8	483.7	477.3	460.2	429.2	397.1	378.9	376.7
57.5°	9416.0	5778.2	906.5	500.9	452.7	454.9	429.2	401.3	371.4	352.1	350.0
60°	9954.3	5973.0	743.8	459.1	419.5	426.0	398.1	377.8	340.3	315.7	312.5
62.5°	10814.8	6275.9	590.8	407.8	381.0	383.1	371.4	346.8	301.8	272.9	270.8
65°	11497.6	6164.6	465.6	352.1	337.1	340.3	340.3	313.6	265.4	232.2	229.0
67.5°	11420.6	5278.4	371.4	297.5	295.4	297.5	305.0	282.5	235.5	208.7	204.4
70°	10520.5	4198.6	297.5	247.2	256.9	251.5	272.9	257.9	211.9	185.2	181.9
72.5°	8584.4	3024.5	226.9	204.4	196.9	205.5	246.2	232.2	176.6	146.6	143.4
75°	5016.2	1613.9	169.1	161.6	142.3	171.2	218.3	198.0	134.9	108.1	104.9
77.5°	1633.2	562.9	124.1	118.8	106.0	138.1	186.2	167.0	110.2	85.6	82.4
80°	437.7	170.2	84.5	78.1	68.5	102.7	147.7	132.7	79.2	55.7	54.6
82.5°	175.5	71.7	49.2	43.9	37.5	70.6	116.7	107.0	58.9	35.3	35.3
85°	56.7	23.5	18.2	13.9	17.1	43.9	69.6	72.8	41.7	18.2	13.9
87.5°	7.5	3.2	3.2	4.3	3.2	7.5	21.4	20.3	11.8	2.1	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)