

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: P883296

Luminaire Tested: **NAV-SB3C-827-U-T2-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883296
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-827-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 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: 13328 lumens
Efficiency: N/A
Efficacy: 89.4 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

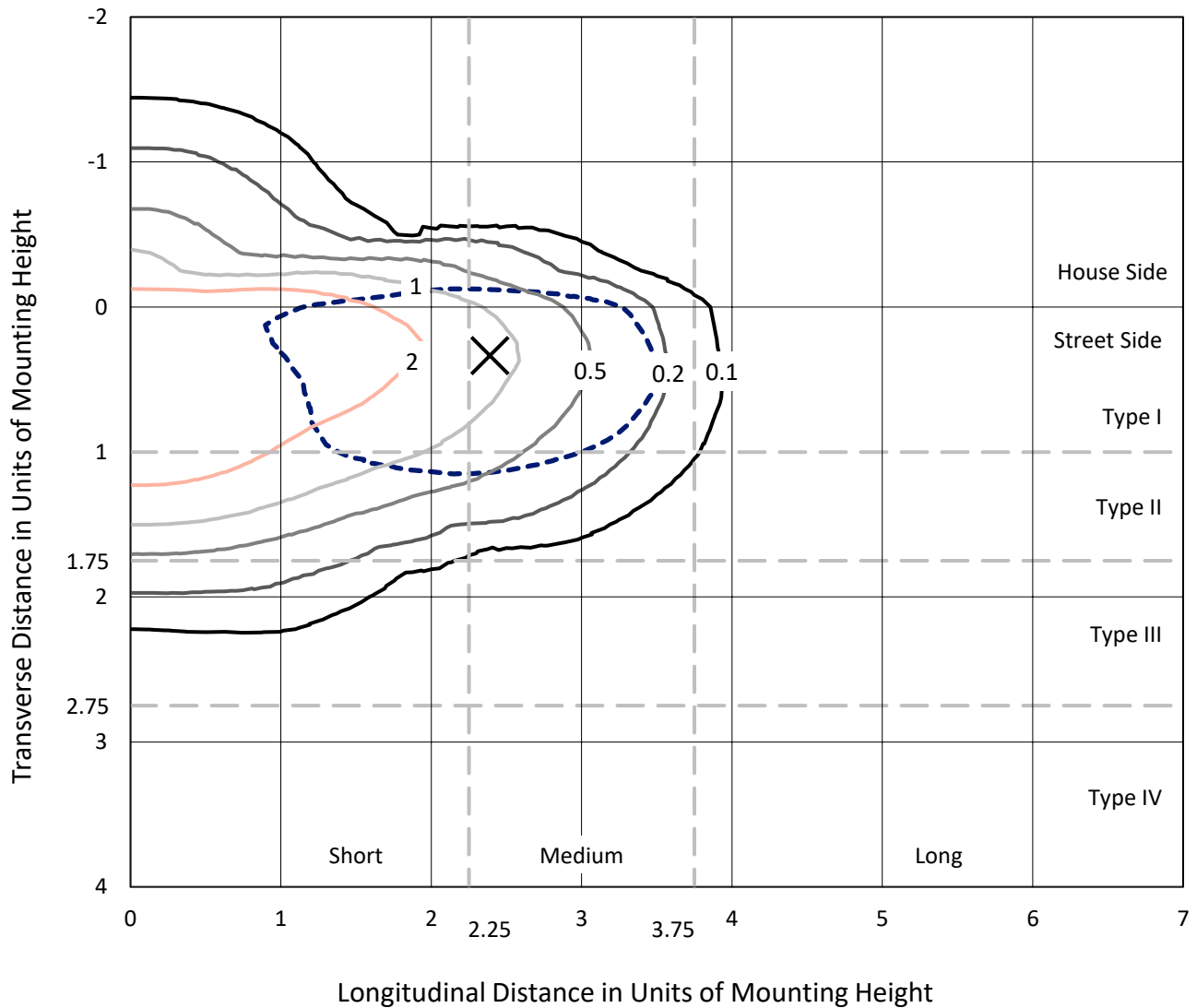
Input Watts (W): 149.1
Input Voltage (V): 120.0
Input Current (Ain): 1.259
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

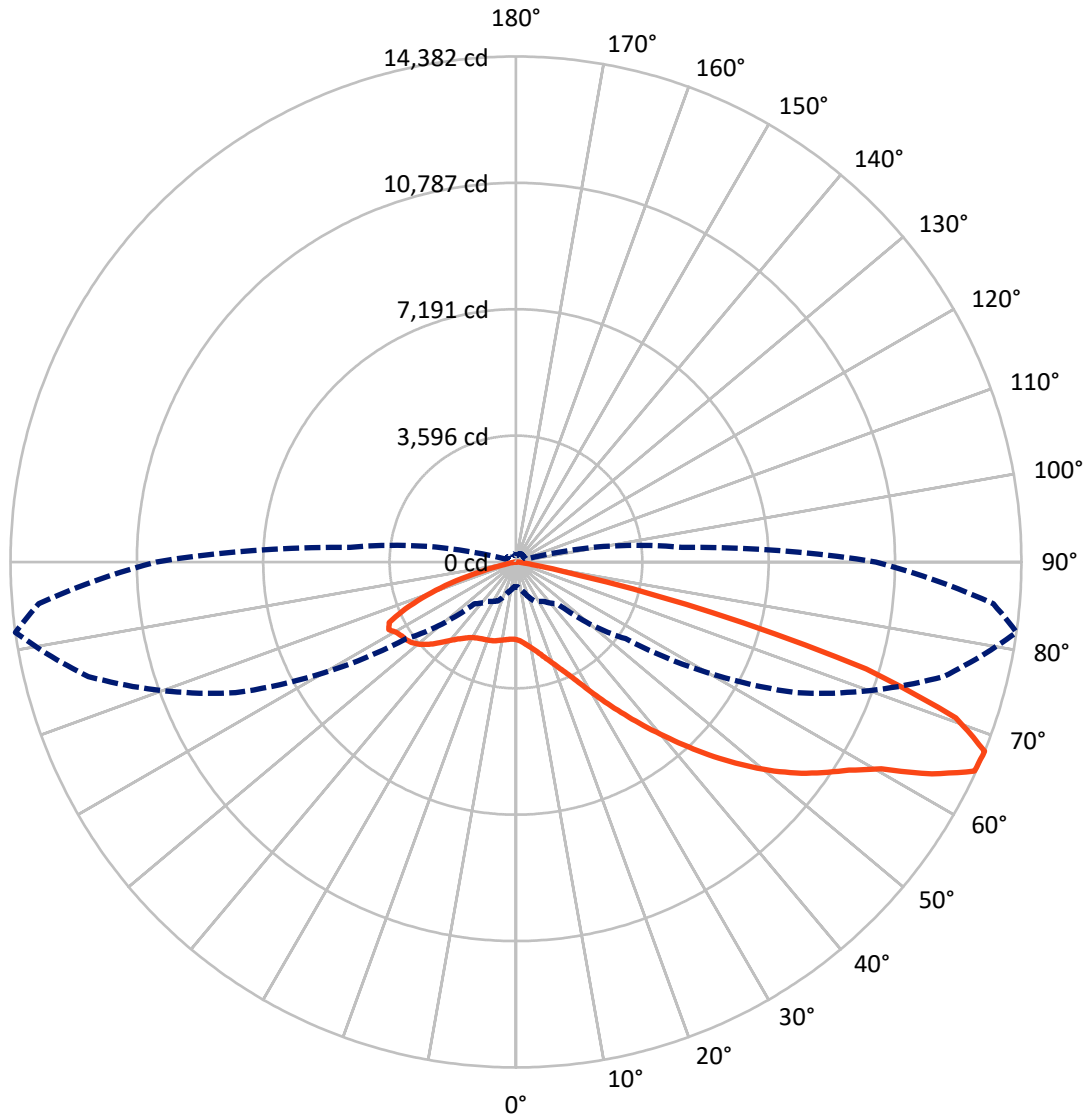
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	2414.2	0.0	2414.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	10913.7	0.0	10913.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	13328.0	0.0	13328.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.7	1.5
10°-20°	511.2	3.8
20°-30°	818.8	6.1
30°-40°	1447.8	10.9
40°-50°	2536.7	19.0
50°-60°	3383.3	25.4
60°-70°	3149.6	23.6
70°-80°	1208.8	9.1
80°-90°	75.1	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°	13328.0	100.0
0°-180°	13328.0	100.0

Coefficient of Utilization



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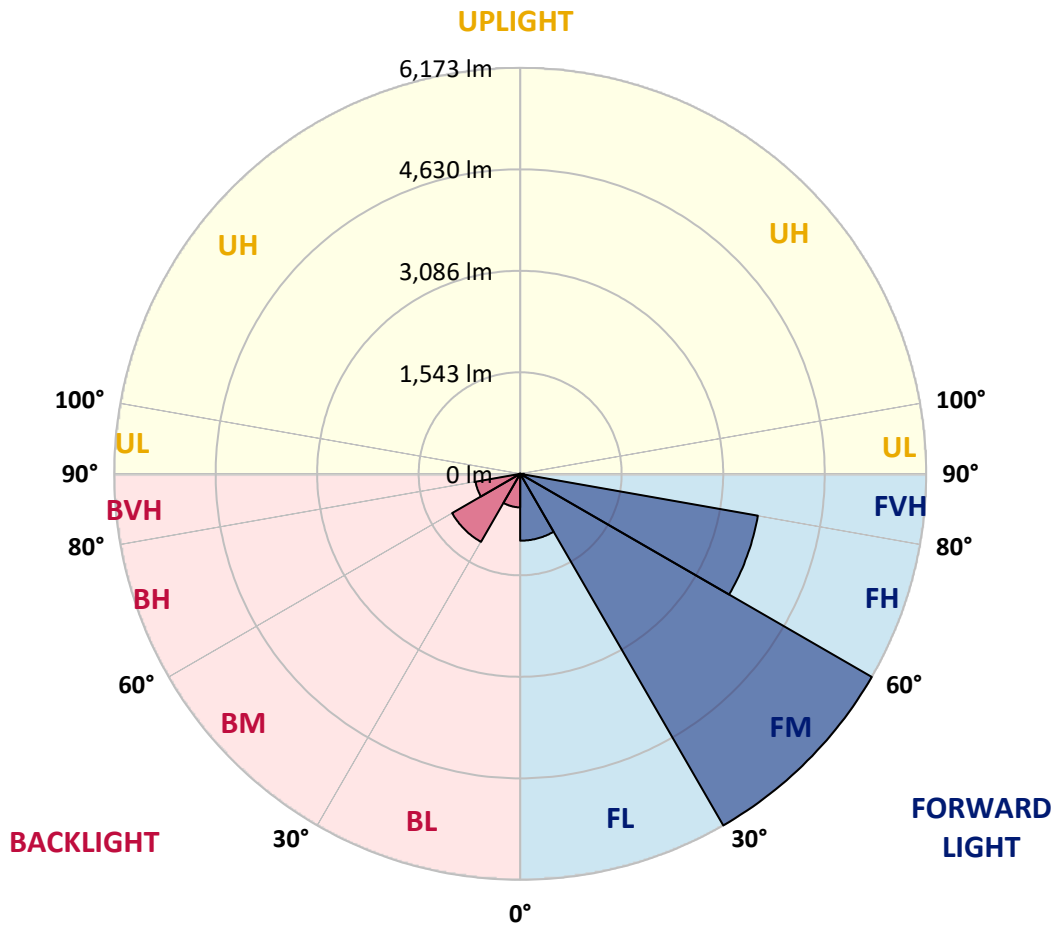
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1016.8	7.6			
FM (30°-60°)	6173.0	46.3			
FH (60°-80°)	3669.4	27.5			G2/5000
FVH (80°-90°)	54.6	0.4			G1/100
BL (0°-30°)	509.9	3.8	B2/1000		
BM (30°-60°)	1194.8	9.0	B2/2500		
BH (60°-80°)	689.1	5.2	B2/1000		G2/1000
BVH (80°-90°)	20.5	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°	2208.0	2208.0	2208.0	2208.0	2208.0	2208.0	2208.0	2208.0	2208.0	2208.0	2208.0
2.5°	2333.7	2347.1	2339.5	2335.6	2328.9	2319.3	2311.6	2287.6	2262.7	2246.4	2240.6
5°	2380.7	2394.2	2393.2	2397.0	2401.8	2404.7	2402.8	2375.9	2340.4	2312.6	2296.3
7.5°	2340.4	2355.8	2368.2	2387.4	2421.0	2456.5	2473.8	2468.0	2431.6	2393.2	2373.0
10°	2226.2	2242.5	2272.3	2317.4	2388.4	2465.2	2529.5	2559.2	2536.2	2494.0	2466.1
12.5°	2017.0	2033.4	2091.9	2189.8	2308.8	2442.1	2565.0	2644.6	2650.4	2608.1	2575.5
15°	1781.9	1798.3	1860.6	1983.5	2164.8	2378.8	2584.2	2734.8	2785.7	2749.2	2709.9
17.5°	1636.1	1650.5	1697.5	1796.3	1985.4	2252.1	2577.4	2830.8	2946.9	2918.1	2871.1
20°	1591.9	1604.4	1626.5	1695.6	1853.0	2120.7	2533.3	2921.0	3120.6	3104.2	3051.5
22.5°	1639.0	1650.5	1657.2	1687.9	1786.7	2034.3	2477.6	3013.1	3322.1	3324.0	3259.7
25°	1747.4	1758.9	1751.2	1770.4	1813.6	2007.4	2456.5	3121.5	3575.4	3596.5	3523.6
27.5°	1925.9	1926.8	1908.6	1907.6	1914.4	2047.7	2478.6	3237.6	3894.9	3934.3	3844.1
30°	2283.8	2269.4	2199.4	2123.6	2089.0	2168.7	2540.0	3374.9	4272.1	4342.1	4228.9
32.5°	2835.6	2814.5	2685.9	2504.5	2322.2	2363.5	2650.4	3531.3	4682.8	4809.4	4671.2
35°	3434.3	3428.6	3294.2	3024.6	2706.0	2640.8	2829.8	3736.6	5130.9	5332.4	5168.3
37.5°	3990.9	3988.0	3911.3	3593.6	3206.0	3027.5	3117.7	4005.3	5610.7	5902.4	5708.6
40°	4499.5	4508.1	4431.4	4147.3	3756.8	3523.6	3509.2	4337.3	6144.2	6523.2	6292.9
42.5°	4939.0	4948.6	4870.8	4660.7	4300.8	4072.5	3989.9	4744.2	6665.3	7190.1	6917.6
45°	5237.4	5296.9	5285.4	5117.5	4859.3	4622.3	4567.6	5254.7	7259.2	7897.4	7577.8
47.5°	5321.8	5376.5	5462.9	5485.9	5328.6	5095.4	5160.6	5869.8	7859.9	8605.5	8241.9
50°	5113.6	5164.5	5343.9	5582.8	5692.2	5620.3	5737.3	6529.0	8475.0	9311.8	8893.4
52.5°	4702.9	4754.7	4981.2	5359.3	5805.5	6031.9	6316.0	7178.6	9070.9	9980.6	9510.4
55°	4108.9	4163.6	4454.4	4882.4	5589.6	6201.8	6798.6	7827.3	9616.9	10582.3	10067.0
57.5°	3301.0	3341.3	3643.5	4242.3	5046.4	6032.9	7154.6	8535.5	10131.3	11173.4	10618.7
60°	2151.4	2186.9	2538.1	3206.0	4146.4	5468.7	7225.7	9325.2	10814.5	11942.0	11362.4
62.5°	1430.7	1454.7	1663.0	2153.3	2920.0	4385.3	6810.2	9955.7	11816.3	13279.7	12637.7
65°	981.7	1005.6	1213.9	1555.5	1886.5	2900.8	5615.5	9872.2	12724.1	14341.9	13582.9
67.5°	700.5	720.6	897.2	1219.6	1365.5	1685.0	3806.7	8805.1	12593.6	14382.2	13633.7
70°	501.9	513.4	659.2	950.0	1085.3	1012.4	2116.8	6734.3	11026.6	13280.6	12595.5
72.5°	351.2	355.0	457.7	723.5	874.2	738.9	1007.6	4489.9	8339.7	10423.9	9764.7
75°	238.0	242.8	308.0	530.6	701.5	564.2	533.5	2407.6	4895.8	5770.0	5172.1
77.5°	145.9	147.8	198.6	362.7	524.9	429.9	343.5	1020.0	1894.2	1859.7	1585.2
80°	82.5	82.5	126.7	225.5	357.9	277.3	240.9	433.7	599.7	526.8	464.4
82.5°	46.1	47.0	92.1	140.1	237.0	164.1	132.4	200.6	259.1	229.3	199.6
85°	19.2	21.1	56.6	66.2	113.2	81.6	53.7	84.4	96.0	85.4	62.4
87.5°	1.9	2.9	17.3	12.5	13.4	16.3	7.7	16.3	13.4	13.4	9.6
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°	2208.0	2208.0	2208.0	2208.0	2208.0	2208.0	2208.0	2208.0	2208.0	2208.0	2208.0
2.5°	2222.4	2208.0	2171.5	2129.3	2073.7	2046.8	2010.3	1985.4	1964.3	1966.2	1947.0
5°	2265.6	2229.1	2147.5	2045.8	1919.2	1829.0	1733.0	1666.8	1613.1	1601.5	1575.6
7.5°	2325.1	2267.5	2124.5	1941.2	1727.2	1565.1	1420.2	1327.1	1260.9	1239.8	1218.7
10°	2401.8	2318.4	2094.8	1809.8	1501.7	1295.4	1140.0	1067.1	1022.0	1006.6	995.1
12.5°	2491.1	2376.9	2055.4	1649.5	1269.5	1070.9	972.1	935.6	921.2	916.4	913.5
15°	2603.3	2449.8	1995.9	1459.5	1072.8	933.7	891.5	886.7	888.6	886.7	885.7
17.5°	2736.7	2529.5	1899.0	1263.8	940.4	863.6	848.3	852.1	856.9	855.9	854.0
20°	2882.6	2608.1	1775.2	1090.1	850.2	813.7	805.1	808.9	812.8	810.8	809.9
22.5°	3048.6	2692.6	1638.0	954.8	789.7	767.7	758.1	759.0	759.0	755.2	753.3
25°	3247.2	2785.7	1494.1	858.8	743.7	726.4	714.9	711.1	705.3	693.8	691.9
27.5°	3484.2	2884.5	1355.9	791.7	707.2	690.9	677.5	667.9	653.5	634.3	632.4
30°	3751.0	3004.5	1238.8	749.4	678.4	662.1	646.8	632.4	611.3	587.3	585.3
32.5°	4064.8	3133.0	1153.4	721.6	652.5	635.2	617.0	599.7	576.7	552.7	553.7
35°	4439.0	3288.5	1103.5	702.4	632.4	609.3	589.2	570.0	552.7	531.6	529.7
37.5°	4844.9	3453.5	1088.2	692.8	618.9	583.4	560.4	547.0	545.0	532.6	531.6
40°	5289.2	3649.3	1099.7	687.1	604.5	558.5	533.5	530.6	535.4	513.4	514.3
42.5°	5759.4	3881.5	1118.9	680.3	584.4	533.5	509.5	509.5	505.7	475.0	475.0
45°	6268.0	4149.2	1138.1	664.0	560.4	508.6	490.3	483.6	467.3	437.6	436.6
47.5°	6780.4	4421.8	1152.5	634.3	531.6	487.5	471.2	455.8	431.8	404.9	404.0
50°	7266.9	4666.4	1137.1	590.1	499.0	467.3	450.0	428.9	403.0	384.8	381.9
52.5°	7701.6	4878.5	1071.9	538.3	464.4	446.2	430.9	408.8	387.7	368.5	366.6
55°	8079.7	5050.3	956.7	489.4	433.7	428.0	412.6	384.8	356.0	339.7	337.8
57.5°	8442.4	5180.8	812.8	449.1	405.9	407.8	384.8	359.8	333.0	315.7	313.8
60°	8925.1	5355.4	666.9	411.7	376.2	381.9	357.0	338.7	305.1	283.1	280.2
62.5°	9696.6	5627.0	529.7	365.6	341.6	343.5	333.0	310.9	270.6	244.7	242.8
65°	10308.8	5527.2	417.4	315.7	302.3	305.1	305.1	281.2	238.0	208.2	205.4
67.5°	10239.7	4732.7	333.0	266.8	264.8	266.8	273.5	253.3	211.1	187.1	183.3
70°	9432.7	3764.4	266.8	221.7	230.3	225.5	244.7	231.3	190.0	166.0	163.1
72.5°	7696.8	2711.8	203.4	183.3	176.6	184.2	220.7	208.2	158.3	131.5	128.6
75°	4497.6	1447.0	151.6	144.9	127.6	153.5	195.8	177.5	120.9	96.9	94.0
77.5°	1464.3	504.7	111.3	106.5	95.0	123.8	167.0	149.7	98.8	76.8	73.9
80°	392.5	152.6	75.8	70.0	61.4	92.1	132.4	119.0	71.0	49.9	48.9
82.5°	157.4	64.3	44.1	39.3	33.6	63.3	104.6	96.0	52.8	31.7	31.7
85°	50.9	21.1	16.3	12.5	15.4	39.3	62.4	65.3	37.4	16.3	12.5
87.5°	6.7	2.9	2.9	3.8	2.9	6.7	19.2	18.2	10.6	1.9	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)