

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: P883316

Luminaire Tested: **NAV-SB3C-835-U-T2-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883316
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-835-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3500K, 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: 13840 lumens
Efficiency: N/A
Efficacy: 92.8 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

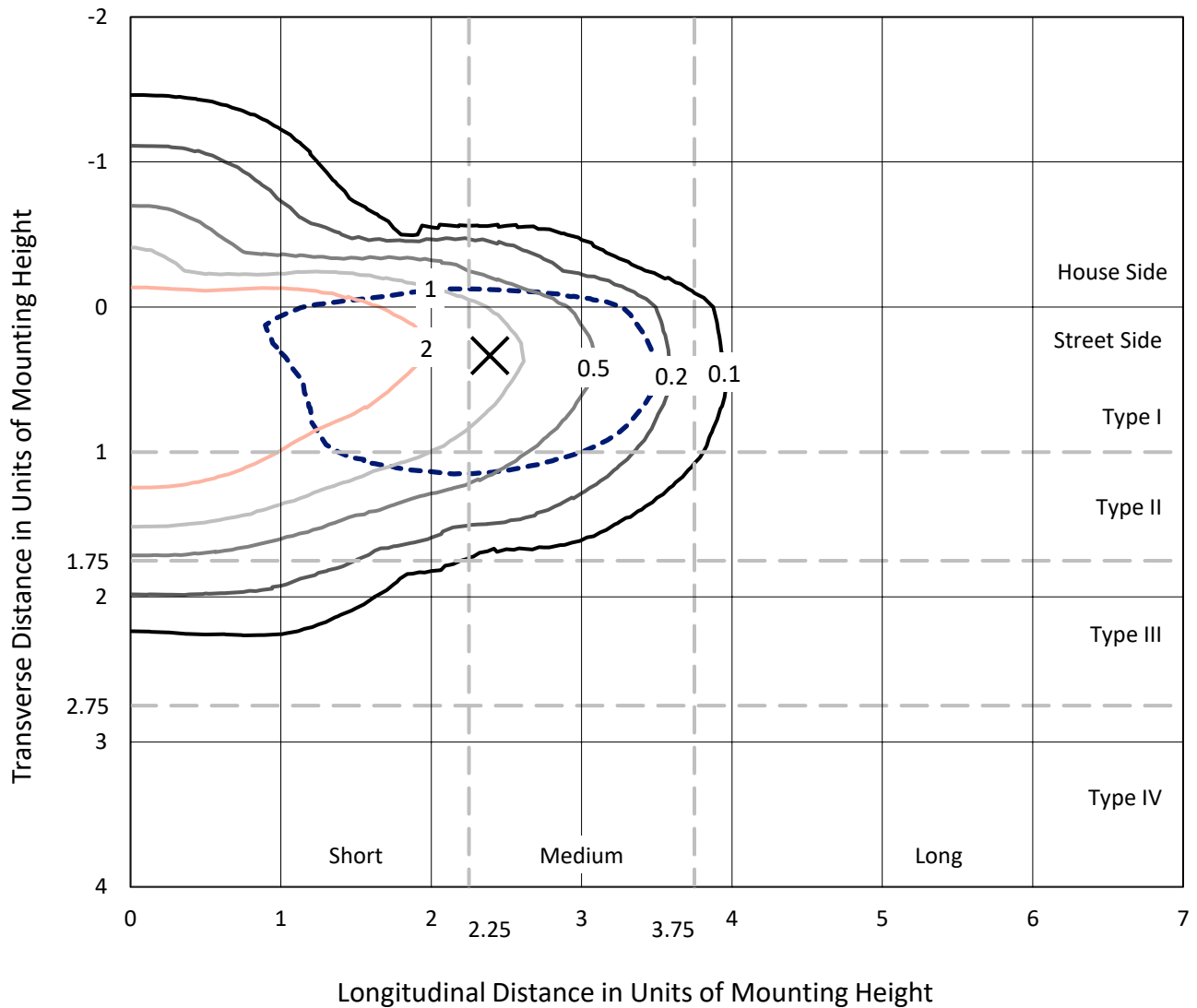
Input Watts (W): 149.1
Input Voltage (V): 120.0
Input Current (Ain): 1.259
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

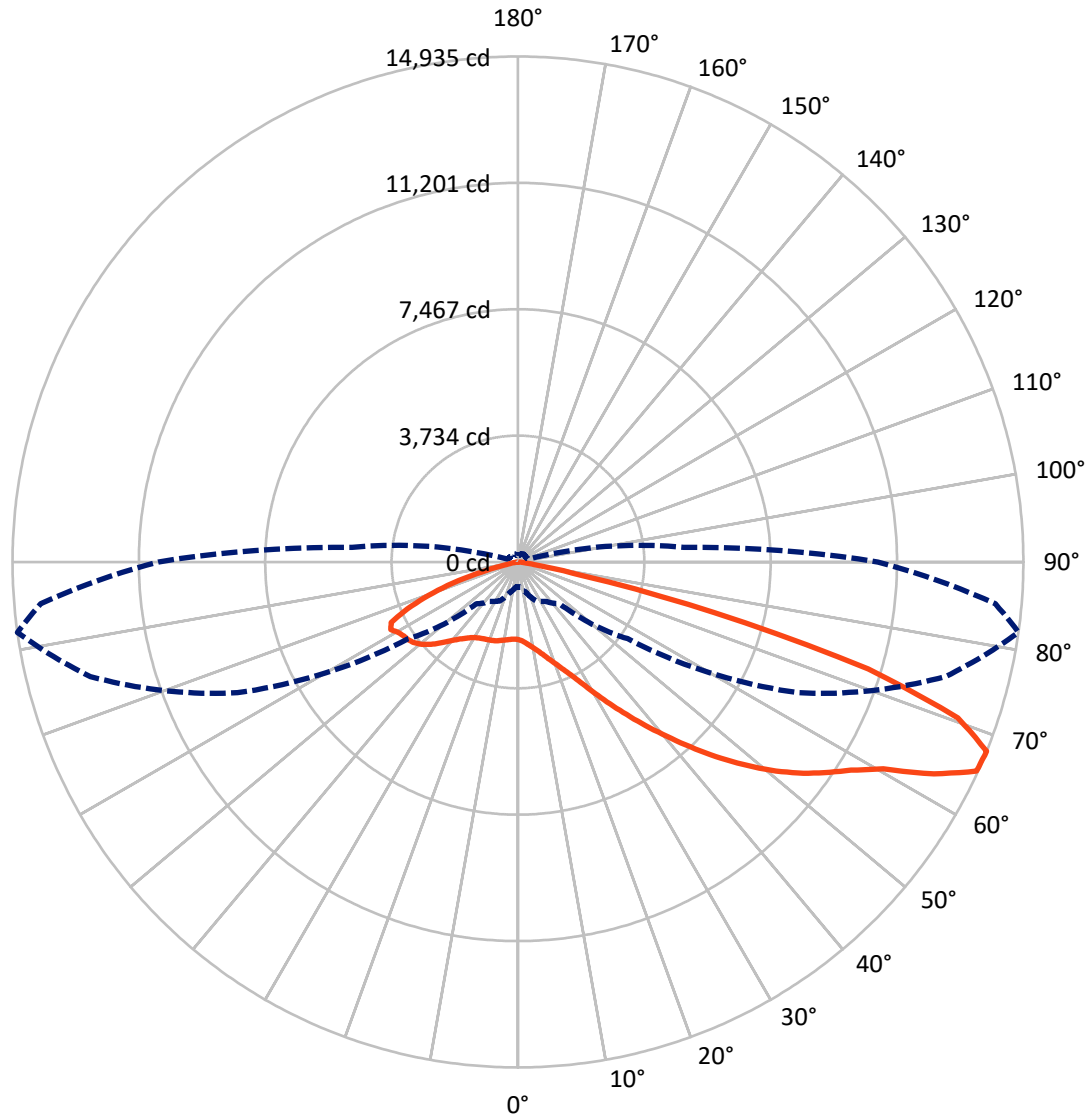
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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	2507.0	0.0	2507.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	11333.0	0.0	11333.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	13840.0	0.0	13840.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.3	1.5
10°-20°	530.8	3.8
20°-30°	850.2	6.1
30°-40°	1503.4	10.9
40°-50°	2634.2	19.0
50°-60°	3513.2	25.4
60°-70°	3270.6	23.6
70°-80°	1255.3	9.1
80°-90°	78.0	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°	13840.0	100.0
0°-180°	13840.0	100.0

Coefficient of Utilization



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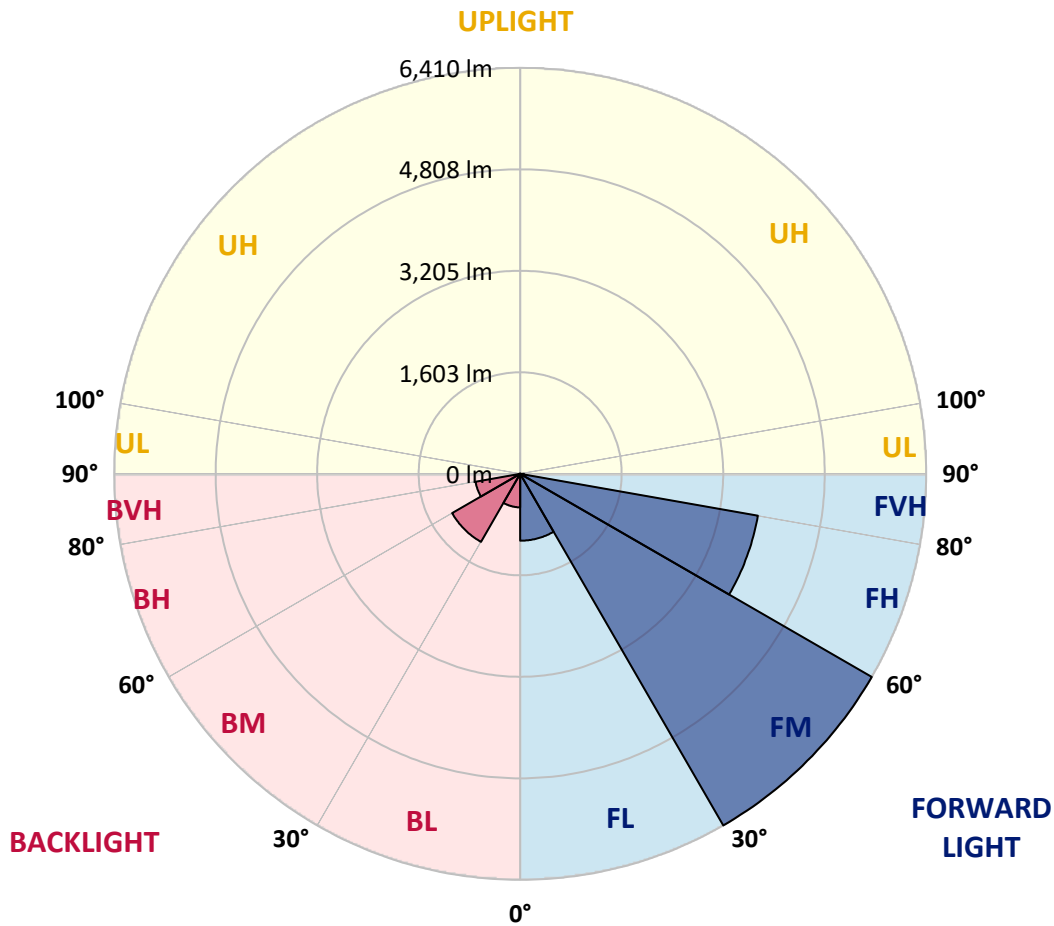
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1055.8	7.6			
FM (30°-60°)	6410.1	46.3			
FH (60°-80°)	3810.4	27.5			G2/5000
FVH (80°-90°)	56.7	0.4			G1/100
BL (0°-30°)	529.5	3.8	B2/1000		
BM (30°-60°)	1240.7	9.0	B2/2500		
BH (60°-80°)	715.5	5.2	B2/1000		G2/1000
BVH (80°-90°)	21.3	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°	2292.8	2292.8	2292.8	2292.8	2292.8	2292.8	2292.8	2292.8	2292.8	2292.8	2292.8
2.5°	2423.4	2437.3	2429.3	2425.3	2418.4	2408.4	2400.4	2375.5	2349.6	2332.7	2326.7
5°	2472.2	2486.1	2485.1	2489.1	2494.1	2497.1	2495.1	2467.2	2430.3	2401.4	2384.5
7.5°	2430.3	2446.3	2459.2	2479.2	2514.0	2550.9	2568.8	2562.9	2525.0	2485.1	2464.2
10°	2311.8	2328.7	2359.6	2406.4	2480.2	2559.9	2626.6	2657.5	2633.6	2589.8	2560.9
12.5°	2094.5	2111.5	2172.2	2273.9	2397.4	2536.0	2663.5	2746.2	2752.2	2708.3	2674.5
15°	1850.4	1867.3	1932.1	2059.7	2248.0	2470.2	2683.4	2839.9	2892.7	2854.8	2814.0
17.5°	1698.9	1713.9	1762.7	1865.3	2061.6	2338.7	2676.5	2939.5	3060.1	3030.2	2981.4
20°	1653.1	1666.1	1689.0	1760.7	1924.1	2202.1	2630.6	3033.2	3240.4	3223.5	3168.7
22.5°	1701.9	1713.9	1720.9	1752.7	1855.4	2112.5	2572.8	3128.8	3449.7	3451.7	3384.9
25°	1814.5	1826.5	1818.5	1838.4	1883.3	2084.6	2550.9	3241.4	3712.8	3734.7	3658.9
27.5°	1999.9	2000.9	1981.9	1980.9	1987.9	2126.4	2573.8	3362.0	4044.6	4085.4	3991.8
30°	2371.5	2356.6	2283.9	2205.1	2169.3	2252.0	2637.6	3504.5	4436.2	4508.9	4391.3
32.5°	2944.5	2922.6	2789.0	2600.7	2411.4	2454.2	2752.2	3666.9	4862.7	4994.2	4850.7
35°	3566.3	3560.3	3420.8	3140.8	2810.0	2742.2	2938.5	3880.2	5328.0	5537.2	5366.9
37.5°	4144.2	4141.2	4061.5	3731.7	3329.1	3143.8	3237.4	4159.2	5826.2	6129.1	5927.9
40°	4672.3	4681.3	4601.6	4306.6	3901.1	3658.9	3644.0	4503.9	6380.2	6773.8	6534.7
42.5°	5128.7	5138.7	5058.0	4839.7	4466.1	4228.9	4143.2	4926.4	6921.3	7466.4	7183.4
45°	5438.6	5500.4	5488.4	5314.0	5046.0	4799.9	4743.1	5456.5	7538.1	8200.7	7868.9
47.5°	5526.3	5583.1	5672.8	5696.7	5533.3	5291.1	5358.9	6095.3	8161.9	8936.1	8558.5
50°	5310.1	5362.9	5549.2	5797.3	5910.9	5836.2	5957.7	6779.8	8800.6	9669.5	9235.1
52.5°	4883.6	4937.4	5172.5	5565.1	6028.5	6263.7	6558.6	7454.4	9419.4	10364.0	9875.8
55°	4266.8	4323.6	4625.5	5069.9	5804.3	6440.0	7059.8	8128.0	9986.4	10988.8	10453.7
57.5°	3427.8	3469.6	3783.5	4405.3	5240.3	6264.6	7429.5	8863.4	10520.5	11602.6	11026.7
60°	2234.0	2270.9	2635.6	3329.1	4305.6	5678.7	7503.2	9683.5	11229.9	12400.8	11798.9
62.5°	1485.7	1510.6	1726.8	2236.0	3032.2	4553.8	7071.8	10338.1	12270.2	13789.8	13123.2
65°	1019.4	1044.3	1260.5	1615.2	1959.0	3012.3	5831.2	10251.4	13212.9	14892.9	14104.7
67.5°	727.4	748.3	931.7	1266.5	1417.9	1749.8	3952.9	9143.4	13077.3	14934.7	14157.5
70°	521.1	533.1	684.6	986.5	1127.0	1051.2	2198.2	6993.1	11450.1	13790.8	13079.3
72.5°	364.7	368.7	475.3	751.3	907.8	767.3	1046.3	4662.4	8660.1	10824.4	10139.8
75°	247.1	252.1	319.9	551.0	728.4	585.9	554.0	2500.1	5083.9	5991.6	5370.8
77.5°	151.5	153.5	206.3	376.7	545.1	446.4	356.7	1059.2	1967.0	1931.1	1646.1
80°	85.7	85.7	131.5	234.2	371.7	288.0	250.1	450.4	622.8	547.0	482.3
82.5°	47.8	48.8	95.7	145.5	246.1	170.4	137.5	208.3	269.0	238.2	207.3
85°	19.9	21.9	58.8	68.8	117.6	84.7	55.8	87.7	99.6	88.7	64.8
87.5°	2.0	3.0	17.9	13.0	14.0	16.9	8.0	16.9	14.0	14.0	10.0
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°	2292.8	2292.8	2292.8	2292.8	2292.8	2292.8	2292.8	2292.8	2292.8	2292.8	2292.8
2.5°	2307.8	2292.8	2255.0	2211.1	2153.3	2125.4	2087.6	2061.6	2039.7	2041.7	2021.8
5°	2352.6	2314.7	2230.0	2124.4	1992.9	1899.2	1799.6	1730.8	1675.0	1663.1	1636.2
7.5°	2414.4	2354.6	2206.1	2015.8	1793.6	1625.2	1474.7	1378.1	1309.3	1287.4	1265.5
10°	2494.1	2407.4	2175.2	1879.3	1559.4	1345.2	1183.8	1108.0	1061.2	1045.3	1033.3
12.5°	2586.8	2468.2	2134.4	1712.9	1318.3	1112.0	1009.4	971.5	956.6	951.6	948.6
15°	2703.4	2543.9	2072.6	1515.6	1114.0	969.5	925.7	920.7	922.7	920.7	919.7
17.5°	2841.9	2626.6	1972.0	1312.3	976.5	896.8	880.9	884.8	889.8	888.8	886.8
20°	2993.3	2708.3	1843.4	1132.0	882.9	845.0	836.0	840.0	844.0	842.0	841.0
22.5°	3165.7	2796.0	1700.9	991.5	820.1	797.2	787.2	788.2	788.2	784.2	782.2
25°	3372.0	2892.7	1551.5	891.8	772.2	754.3	742.4	738.4	732.4	720.4	718.4
27.5°	3618.1	2995.3	1408.0	822.1	734.4	717.4	703.5	693.5	678.6	658.7	656.7
30°	3895.1	3119.9	1286.4	778.2	704.5	687.5	671.6	656.7	634.7	609.8	607.8
32.5°	4220.9	3253.4	1197.7	749.3	677.6	659.6	640.7	622.8	598.9	574.0	574.9
35°	4609.6	3414.8	1145.9	729.4	656.7	632.7	611.8	591.9	574.0	552.0	550.0
37.5°	5031.1	3586.2	1130.0	719.4	642.7	605.8	581.9	568.0	566.0	553.0	552.0
40°	5492.4	3789.5	1141.9	713.5	627.8	579.9	554.0	551.0	556.0	533.1	534.1
42.5°	5980.7	4030.6	1161.9	706.5	606.8	554.0	529.1	529.1	525.1	493.2	493.2
45°	6508.8	4308.6	1181.8	689.5	581.9	528.1	509.2	502.2	485.3	454.4	453.4
47.5°	7040.9	4591.6	1196.7	658.7	552.0	506.2	489.3	473.3	448.4	420.5	419.5
50°	7546.1	4845.7	1180.8	612.8	518.2	485.3	467.3	445.4	418.5	399.6	396.6
52.5°	7997.5	5065.9	1113.0	559.0	482.3	463.3	447.4	424.5	402.6	382.6	380.6
55°	8390.1	5244.3	993.5	508.2	450.4	444.4	428.5	399.6	369.7	352.7	350.7
57.5°	8766.7	5379.8	844.0	466.3	421.5	423.5	399.6	373.7	345.8	327.8	325.8
60°	9267.9	5561.2	692.5	427.5	390.6	396.6	370.7	351.7	316.9	294.0	291.0
62.5°	10069.1	5843.2	550.0	379.6	354.7	356.7	345.8	322.8	281.0	254.1	252.1
65°	10704.8	5739.5	433.5	327.8	313.9	316.9	316.9	292.0	247.1	216.2	213.2
67.5°	10633.1	4914.5	345.8	277.0	275.0	277.0	284.0	263.1	219.2	194.3	190.3
70°	9795.1	3909.1	277.0	230.2	239.1	234.2	254.1	240.1	197.3	172.4	169.4
72.5°	7992.5	2816.0	211.2	190.3	183.3	191.3	229.2	216.2	164.4	136.5	133.5
75°	4670.3	1502.6	157.4	150.5	132.5	159.4	203.3	184.3	125.6	100.6	97.7
77.5°	1520.6	524.1	115.6	110.6	98.6	128.5	173.4	155.4	102.6	79.7	76.7
80°	407.5	158.4	78.7	72.7	63.8	95.7	137.5	123.6	73.7	51.8	50.8
82.5°	163.4	66.8	45.8	40.9	34.9	65.8	108.6	99.6	54.8	32.9	32.9
85°	52.8	21.9	16.9	13.0	15.9	40.9	64.8	67.8	38.9	16.9	13.0
87.5°	7.0	3.0	3.0	4.0	3.0	7.0	19.9	18.9	11.0	2.0	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)