

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: P883248

Luminaire Tested: **NAV-SB3C-730-U-T3-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883248
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-730-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17342 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

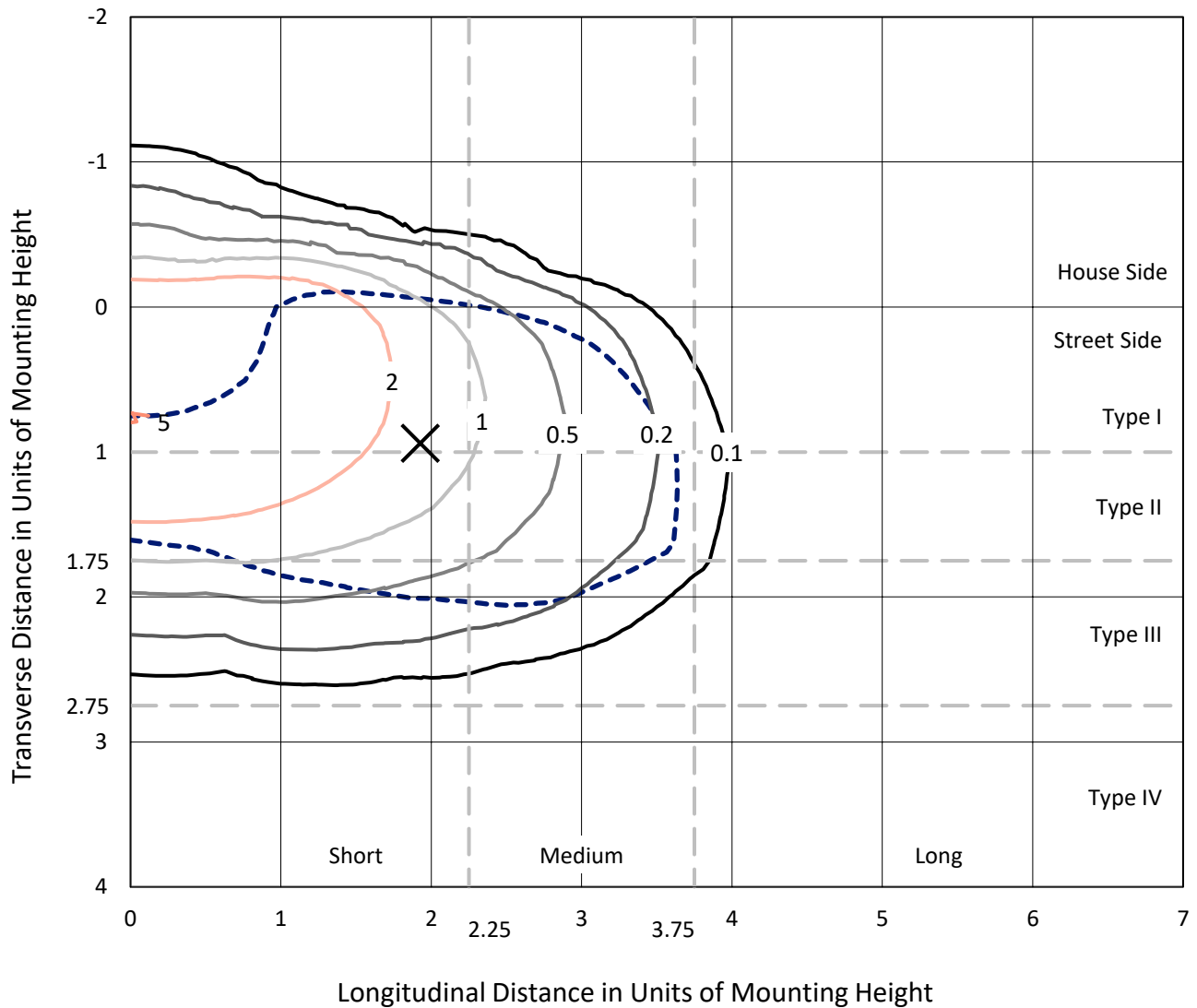
Input Watts (W): 149.1
Input Voltage (V): 120.0
Input Current (Ain): 1.259
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

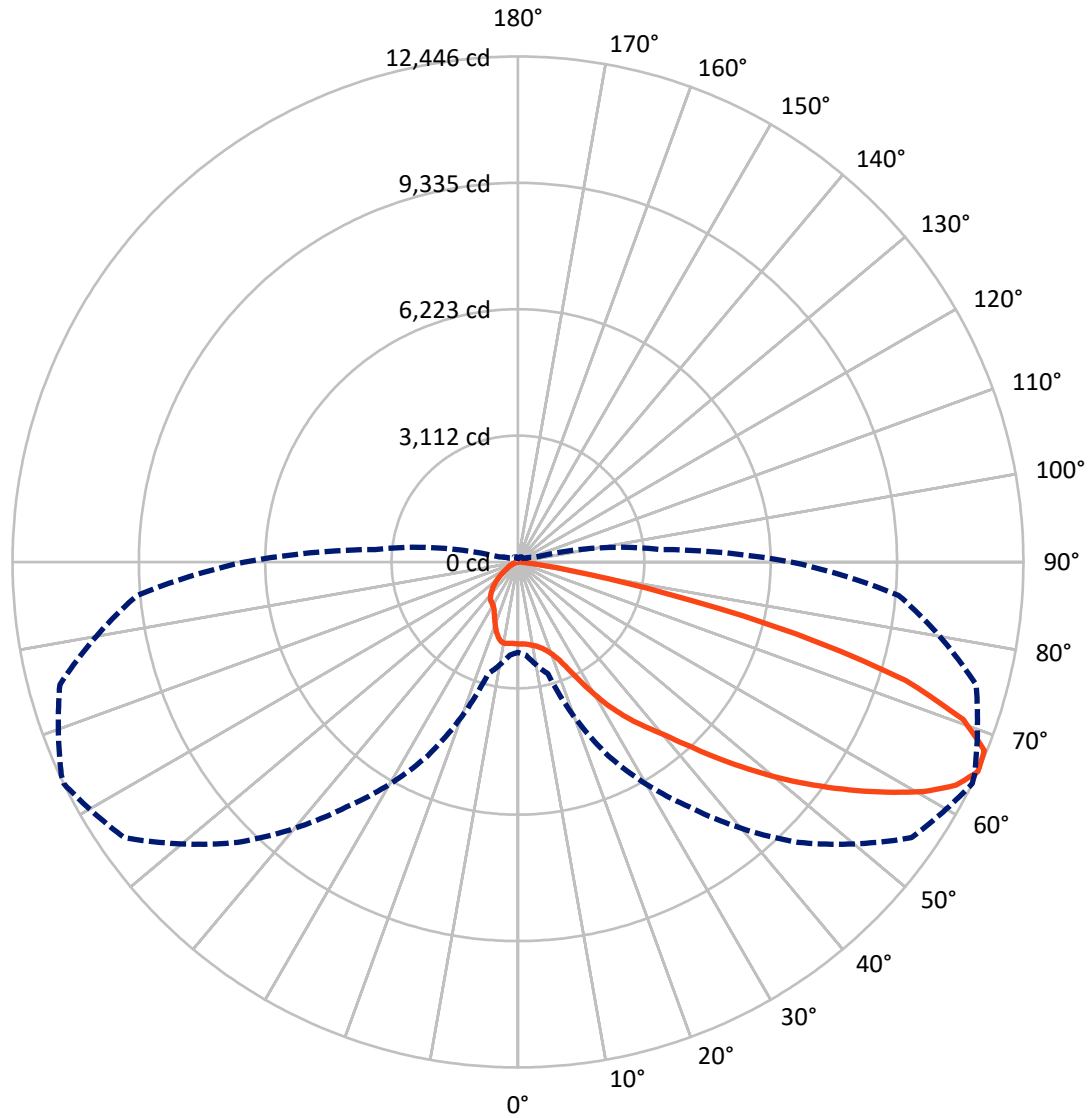
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2319.2	0.0	2319.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	15022.8	0.0	15022.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	17342.0	0.0	17342.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.1	1.1
10°-20°	504.7	2.9
20°-30°	956.4	5.5
30°-40°	1935.4	11.2
40°-50°	3296.9	19.0
50°-60°	4483.6	25.9
60°-70°	4210.3	24.3
70°-80°	1686.8	9.7
80°-90°	81.7	0.5
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°	17342.0	100.0
0°-180°	17342.0	100.0

Coefficient of Utilization



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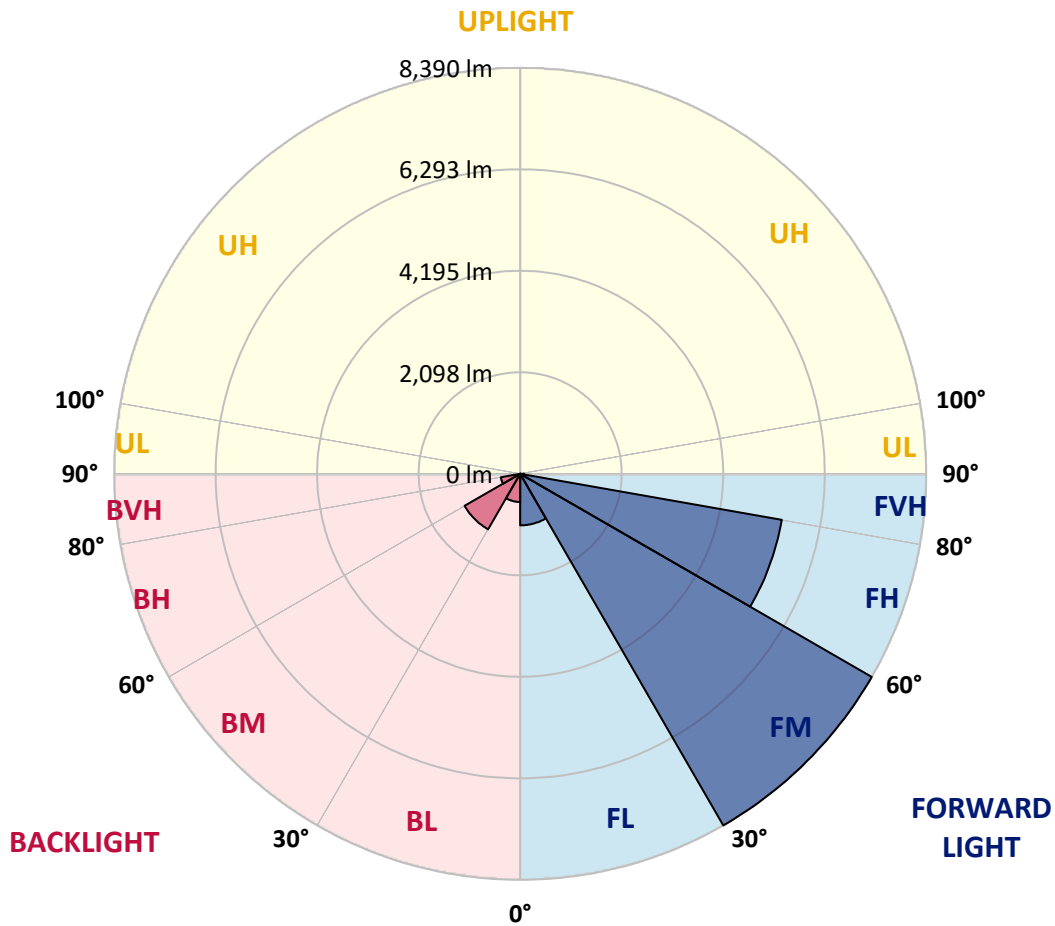
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1065.0	6.1			
FM (30°-60°)	8390.0	48.4			
FH (60°-80°)	5490.1	31.7			G3/7500
FVH (80°-90°)	77.7	0.4			G1/100
BL (0°-30°)	582.3	3.4	B2/1000		
BM (30°-60°)	1325.8	7.6	B2/2500		
BH (60°-80°)	407.0	2.3	B1/500		G1/500
BVH (80°-90°)	4.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1
2.5°	2010.1	2024.0	2020.5	2017.1	2015.9	2018.2	2019.4	2018.2	2018.2	2018.2	2019.4
5°	1971.7	1983.3	1983.3	1991.5	2003.1	2017.1	2027.5	2029.8	2032.2	2035.7	2034.5
7.5°	1898.5	1907.8	1914.7	1941.5	1970.6	2007.8	2039.1	2055.4	2057.7	2070.5	2075.2
10°	1848.5	1860.1	1871.7	1899.6	1941.5	1997.3	2050.8	2090.3	2096.1	2126.3	2140.3
12.5°	1846.2	1857.8	1872.9	1903.1	1952.0	2011.2	2076.3	2133.3	2143.8	2188.0	2217.0
15°	1870.6	1884.5	1898.5	1935.7	1988.0	2060.1	2129.8	2200.7	2211.2	2274.0	2305.4
17.5°	1920.6	1939.2	1949.6	1986.8	2042.6	2122.8	2214.7	2296.1	2305.4	2378.6	2418.1
20°	2019.4	2041.5	2045.0	2075.2	2129.8	2215.9	2325.1	2426.3	2437.9	2521.6	2565.8
22.5°	2224.0	2255.4	2227.5	2242.6	2291.4	2377.5	2496.0	2623.9	2640.2	2735.5	2775.0
25°	2584.4	2628.6	2556.5	2530.9	2551.8	2641.4	2790.2	2951.8	2970.4	3047.1	3066.9
27.5°	3292.4	3235.4	3126.1	3019.2	2956.4	3007.6	3175.0	3374.9	3398.2	3472.6	3449.3
30°	4070.1	4020.2	3872.5	3635.3	3486.5	3478.4	3633.0	3856.2	3883.0	3953.9	3883.0
32.5°	4849.1	4801.4	4641.0	4349.2	4091.1	3963.2	4070.1	4317.8	4331.7	4377.1	4272.4
35°	5615.2	5566.4	5405.9	5107.2	4789.8	4499.1	4478.2	4757.2	4761.9	4809.5	4653.8
37.5°	6386.0	6345.3	6174.4	5881.4	5568.7	5167.6	4973.5	5173.4	5179.2	5225.7	5064.1
40°	6935.9	6953.3	6835.9	6609.2	6340.6	5902.4	5529.2	5616.4	5581.5	5659.4	5562.9
42.5°	7407.9	7442.8	7340.5	7226.5	7070.7	6684.8	6217.4	6202.3	6146.5	6188.3	6088.4
45°	7815.9	7845.0	7753.2	7726.4	7722.9	7452.1	6969.6	6878.9	6801.0	6792.9	6673.1
47.5°	7965.9	8021.7	8061.2	8150.8	8325.1	8211.2	7747.4	7606.7	7519.5	7455.5	7266.0
50°	8022.9	8082.2	8217.0	8477.4	8890.2	8939.0	8521.6	8363.5	8256.6	8140.3	7861.3
52.5°	7946.1	8051.9	8233.3	8671.6	9270.3	9522.6	9264.5	9126.2	9004.1	8814.6	8400.7
55°	7493.9	7599.7	7970.6	8669.3	9459.8	9931.8	9966.7	9905.1	9767.9	9469.1	8836.7
57.5°	6540.6	6697.6	7284.6	8374.0	9456.3	10284.1	10654.9	10699.1	10545.7	10117.8	9179.6
60°	5219.9	5432.7	6148.8	7719.4	9164.5	10474.7	11258.3	11479.2	11316.4	10757.2	9457.5
62.5°	3642.3	3888.8	4566.6	6694.1	8497.2	10337.6	11698.9	12107.0	11983.7	11329.2	9564.4
65°	2221.7	2300.7	2847.1	5267.6	7362.5	9763.2	11834.9	12446.4	12405.8	11679.2	9406.3
67.5°	1479.9	1546.2	1703.2	3612.1	5715.2	8615.8	11509.4	12387.2	12398.8	11622.2	8827.4
70°	891.7	948.7	1051.0	2100.8	3703.9	6819.6	10501.5	11631.5	11698.9	10860.7	7729.9
72.5°	367.4	405.7	498.7	952.1	1918.2	4328.2	8362.3	9986.5	10143.4	9132.0	5932.6
75°	208.1	227.9	293.0	477.8	832.4	2017.1	5065.3	7089.3	7320.7	6294.1	3569.1
77.5°	138.3	147.6	189.5	309.2	468.5	688.2	2164.7	3693.5	4135.3	3437.7	1545.1
80°	93.0	101.1	130.2	206.9	304.6	295.3	689.4	1368.3	1683.4	1181.2	376.7
82.5°	62.8	63.9	93.0	136.0	193.0	143.0	203.4	425.5	534.8	341.8	143.0
85°	36.0	34.9	68.6	79.1	86.0	59.3	61.6	127.9	167.4	144.2	81.4
87.5°	4.7	7.0	26.7	20.9	11.6	12.8	12.8	22.1	32.6	34.9	17.4
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°	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1
2.5°	2019.4	2018.2	2014.7	2011.2	2003.1	1998.5	2000.8	1998.5	1997.3	1998.5	2003.1
5°	2034.5	2031.0	2021.7	2010.1	1993.8	1974.0	1961.3	1942.7	1925.2	1914.7	1917.1
7.5°	2075.2	2071.7	2058.9	2026.4	1974.0	1891.5	1815.9	1749.7	1699.7	1670.6	1671.8
10°	2140.3	2134.5	2114.7	2042.6	1905.4	1725.3	1575.3	1450.9	1369.5	1331.1	1327.7
12.5°	2217.0	2210.0	2175.2	2027.5	1775.2	1493.9	1287.0	1148.6	1073.0	1039.3	1035.8
15°	2307.7	2298.4	2229.8	1955.4	1585.7	1238.1	1048.6	945.2	896.3	866.1	867.3
17.5°	2420.5	2404.2	2270.5	1847.3	1380.0	1042.8	902.2	824.3	781.2	752.2	749.9
20°	2566.9	2540.2	2303.0	1718.3	1190.5	919.6	803.3	738.2	705.7	680.1	675.5
22.5°	2771.6	2733.2	2342.6	1578.8	1056.8	834.7	730.1	682.4	655.7	626.6	622.0
25°	3025.0	2979.7	2391.4	1449.7	964.9	761.5	676.6	637.1	605.7	572.0	568.5
27.5°	3379.6	3298.2	2449.5	1343.9	885.9	698.7	627.8	583.6	547.6	519.7	513.9
30°	3774.9	3641.2	2500.7	1280.0	813.8	640.6	563.8	519.7	486.0	466.2	462.7
32.5°	4149.2	3967.8	2534.4	1252.1	748.7	574.3	494.1	446.4	420.8	415.0	418.5
35°	4502.6	4263.1	2530.9	1225.3	690.6	508.0	425.5	376.7	356.9	360.4	360.4
37.5°	4909.5	4578.2	2506.5	1183.5	642.9	447.6	366.2	323.2	305.8	306.9	311.6
40°	5382.7	4942.1	2491.4	1104.4	590.6	391.8	317.4	282.5	269.7	265.1	263.9
42.5°	5887.2	5294.3	2493.7	1014.9	525.5	341.8	283.7	254.6	243.0	239.5	238.3
45°	6394.1	5630.3	2497.2	921.9	456.9	303.4	259.3	234.8	227.9	223.2	223.2
47.5°	6870.8	5916.3	2432.1	821.9	389.5	274.4	239.5	223.2	217.4	211.6	211.6
50°	7314.9	6107.0	2275.1	705.7	336.0	251.1	224.4	212.7	206.9	201.1	201.1
52.5°	7660.2	6137.2	2015.9	585.9	298.8	233.7	215.1	204.6	197.6	191.8	190.7
55°	7813.6	5947.7	1647.4	474.3	269.7	218.6	205.8	195.3	187.2	181.4	180.2
57.5°	7774.1	5548.9	1284.6	381.3	241.8	203.4	194.1	187.2	177.9	168.6	167.4
60°	7579.9	5015.3	968.4	317.4	216.2	187.2	181.4	175.5	162.8	148.8	146.5
62.5°	7244.0	4344.5	690.6	262.7	188.3	168.6	166.2	161.6	143.0	117.4	115.1
65°	6730.1	3529.6	465.0	218.6	161.6	147.6	148.8	140.7	116.3	87.2	84.9
67.5°	5979.1	2580.9	297.6	179.0	134.9	123.2	124.4	119.7	98.8	74.4	70.9
70°	5022.3	1709.0	194.1	136.0	108.1	95.3	102.3	103.5	83.7	60.5	58.1
72.5°	3681.9	1009.1	136.0	101.1	79.1	66.3	83.7	86.0	67.4	45.3	43.0
75°	2098.4	479.0	102.3	73.2	48.8	46.5	65.1	65.1	46.5	30.2	27.9
77.5°	881.2	200.0	72.1	47.7	27.9	26.7	44.2	40.7	23.3	14.0	14.0
80°	254.6	89.5	38.4	23.3	11.6	10.5	17.4	12.8	5.8	2.3	2.3
82.5°	100.0	39.5	15.1	9.3	4.7	4.7	2.3	0.0	0.0	0.0	0.0
85°	59.3	16.3	7.0	3.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.1	3.5	2.3	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)