

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: P961299

Luminaire Tested: **NAV-SB2A-722-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961299
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2A-722-U-AFL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7725.4 lumens
Efficiency: N/A
Efficacy: 134.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

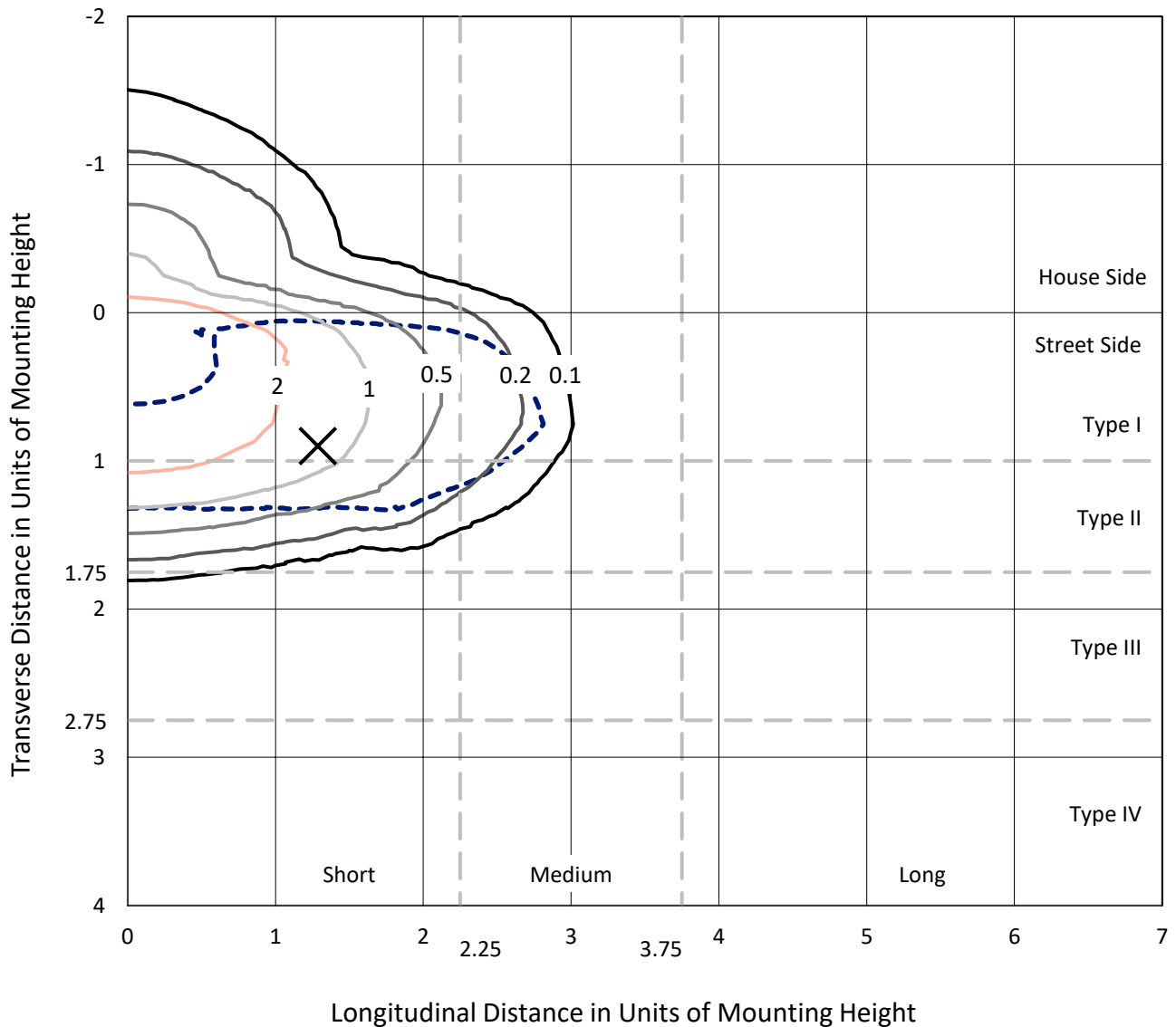
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

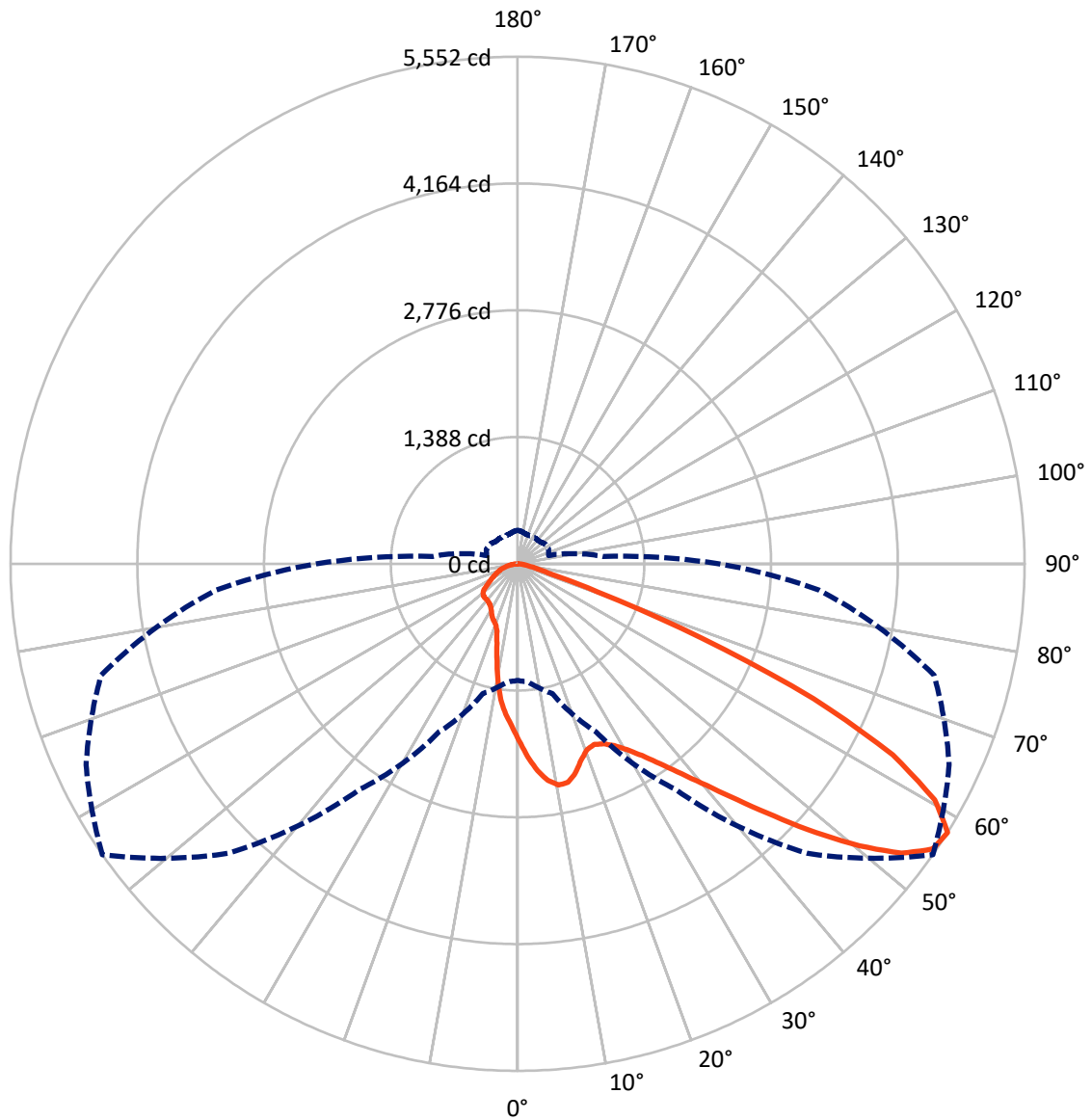
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1397.9	0.0	1397.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	6327.6	0.0	6327.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	7725.4	0.0	7725.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.6	2.3
10°-20°	453.4	5.9
20°-30°	723.5	9.4
30°-40°	1145.4	14.8
40°-50°	1753.2	22.7
50°-60°	1877.8	24.3
60°-70°	1181.4	15.3
70°-80°	349.3	4.5
80°-90°	61.8	0.8
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°	7725.4	100.0
0°-180°	7725.4	100.0

Coefficient of Utilization

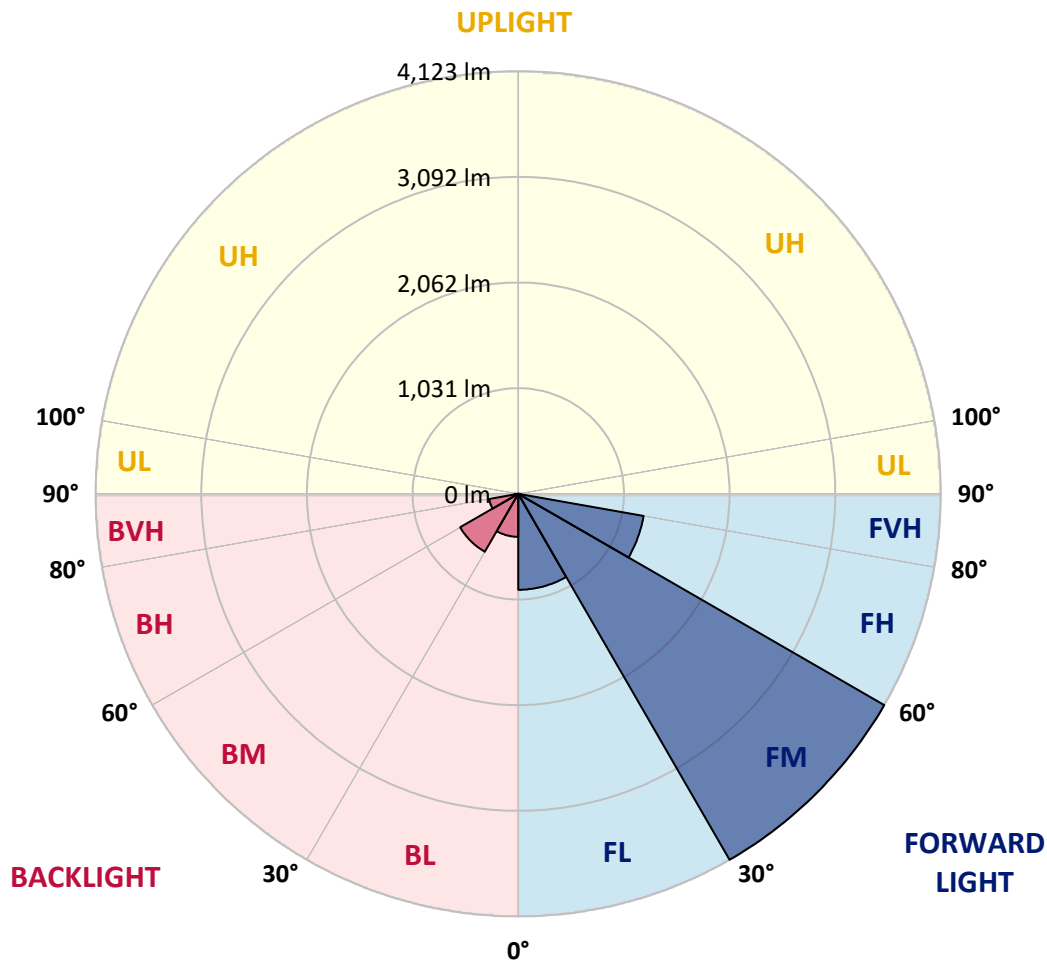


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	936.3	12.1			
FM (30°-60°)	4123.1	53.4			
FH (60°-80°)	1242.0	16.1			G1/1800
FVH (80°-90°)	26.1	0.3			G1/100
BL (0°-30°)	420.2	5.4	B1/500		
BM (30°-60°)	653.4	8.5	B1/1000		
BH (60°-80°)	288.7	3.7	B1/500		G1/500
BVH (80°-90°)	35.7	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1935.7	1935.7	1935.7	1935.7	1935.7	1935.7	1935.7	1935.7	1935.7	1935.7	1935.7
2.5°	2220.9	2219.3	2228.0	2198.1	2177.7	2150.2	2113.9	2067.5	2017.6	1964.9	1942.2
5°	2420.9	2407.0	2416.2	2393.8	2371.4	2329.9	2276.0	2200.6	2108.2	2003.3	1947.3
7.5°	2389.4	2379.8	2403.4	2423.4	2440.1	2435.0	2395.4	2316.3	2197.3	2044.8	1963.7
10°	2135.1	2124.2	2157.4	2226.5	2327.9	2416.2	2464.1	2415.0	2288.4	2090.3	1979.7
12.5°	1910.6	1905.4	1927.3	1983.3	2095.9	2265.2	2455.3	2501.2	2383.0	2144.2	2001.2
15°	1814.8	1808.3	1822.3	1850.6	1922.6	2080.3	2375.4	2560.3	2476.1	2206.5	2035.5
17.5°	1793.5	1786.4	1792.4	1807.2	1853.5	1973.6	2254.8	2589.5	2573.2	2276.0	2064.4
20°	1832.7	1826.8	1827.5	1826.8	1859.0	1954.5	2171.0	2578.3	2657.8	2339.9	2092.3
22.5°	1927.3	1917.4	1917.8	1896.6	1914.2	1988.1	2149.0	2548.4	2733.3	2395.8	2113.4
25°	2081.5	2063.5	2067.1	2013.2	2008.4	2063.1	2183.4	2525.2	2808.4	2440.5	2117.4
27.5°	2292.4	2272.0	2261.3	2181.0	2142.7	2169.7	2253.3	2533.2	2879.4	2479.3	2107.5
30°	2555.9	2531.2	2509.2	2395.4	2325.9	2316.0	2361.9	2585.9	2963.3	2520.1	2090.3
32.5°	2879.0	2850.3	2810.3	2659.4	2561.6	2509.2	2502.4	2679.8	3061.6	2571.9	2081.5
35°	3263.6	3226.1	3169.4	2974.1	2850.3	2743.3	2687.8	2815.2	3196.2	2650.2	2091.5
37.5°	3659.9	3617.5	3565.6	3333.1	3181.0	3023.2	2913.8	2998.8	3375.4	2756.4	2117.9
40°	4025.3	3977.7	3929.4	3722.5	3559.2	3369.1	3190.5	3231.3	3594.7	2883.4	2162.5
42.5°	4240.9	4205.8	4187.4	4075.6	3949.3	3756.4	3534.8	3506.8	3841.1	3029.6	2213.7
45°	4231.3	4217.0	4273.6	4320.0	4290.0	4183.0	3938.2	3811.6	4088.3	3156.2	2260.8
47.5°	4005.3	4014.8	4141.4	4401.9	4516.5	4572.4	4397.5	4110.7	4303.2	3250.9	2282.0
50°	3390.3	3398.2	3691.3	4252.8	4574.8	4889.9	4853.2	4402.7	4469.7	3308.8	2277.2
52.5°	2903.4	2908.6	3034.4	3811.2	4382.3	5049.7	5263.7	4677.8	4591.6	3324.8	2250.5
55°	2186.9	2204.9	2345.9	2990.0	3881.5	4923.0	5513.7	4961.4	4668.7	3326.3	2222.5
57.5°	1277.6	1297.1	1471.3	2029.6	3016.9	4481.7	5551.6	5212.9	4720.9	3313.5	2205.7
60°	625.8	634.2	710.1	1066.7	1860.3	3631.5	5246.5	5334.8	4750.1	3306.8	2204.9
62.5°	421.7	420.6	423.7	526.3	916.6	2333.1	4610.8	5121.5	4734.5	3280.8	2196.9
65°	362.6	358.2	346.2	369.4	474.9	1067.1	3562.4	4484.9	4615.9	3215.7	2142.2
67.5°	313.5	313.9	314.3	307.1	339.1	492.4	2177.0	3532.9	4190.2	2907.4	1931.3
70°	259.6	263.2	264.8	264.8	276.3	323.1	929.4	2421.4	3305.2	2279.6	1555.5
72.5°	236.5	228.9	229.6	225.6	225.6	246.0	374.2	1372.7	2082.3	1282.4	949.3
75°	192.9	197.7	198.4	195.7	186.5	187.7	222.0	575.8	891.0	532.0	469.2
77.5°	166.6	166.6	168.1	166.2	159.0	140.5	148.2	223.2	303.1	218.0	234.4
80°	133.8	133.4	140.2	144.2	132.9	103.8	94.6	123.4	134.6	95.8	121.8
82.5°	65.1	69.1	96.2	109.8	101.1	75.1	57.9	76.7	71.9	42.3	54.7
85°	37.9	36.0	43.2	61.1	57.9	41.5	28.0	40.0	37.5	21.5	21.9
87.5°	12.0	11.2	8.8	20.8	16.8	11.6	7.6	11.6	10.4	4.8	4.8
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1935.7	1935.7	1935.7	1935.7	1935.7	1935.7	1935.7	1935.7	1935.7	1935.7
2.5°	1913.8	1866.6	1819.9	1777.1	1751.2	1734.5	1717.7	1698.9	1691.8	1680.9
5°	1894.6	1803.6	1722.5	1652.6	1589.1	1539.1	1488.8	1448.1	1429.8	1442.1
7.5°	1883.4	1751.6	1626.7	1498.4	1375.0	1276.4	1190.5	1130.2	1103.1	1109.9
10°	1873.4	1692.9	1502.4	1299.9	1122.6	1000.4	912.6	866.6	849.4	853.0
12.5°	1864.3	1627.0	1352.7	1086.3	897.8	817.1	791.9	792.3	795.5	798.0
15°	1862.6	1547.5	1185.3	899.3	776.3	771.2	798.4	815.5	824.7	827.5
17.5°	1860.3	1452.5	1014.7	772.0	746.8	782.0	807.1	818.3	825.5	825.9
20°	1850.6	1331.9	857.4	711.2	740.5	770.8	786.4	795.1	801.1	803.1
22.5°	1821.1	1197.7	734.8	684.1	714.8	739.2	757.6	767.6	771.2	773.6
25°	1768.0	1047.6	650.2	658.2	679.4	710.1	724.9	726.8	725.7	729.3
27.5°	1698.5	886.6	597.5	623.0	650.2	676.5	684.5	683.4	680.9	684.9
30°	1614.7	742.0	564.0	583.4	620.6	644.6	651.8	648.9	644.2	648.6
32.5°	1526.0	623.8	536.4	556.0	596.2	619.8	627.0	624.2	620.6	624.2
35°	1443.3	541.1	510.8	537.5	577.1	600.2	609.5	609.9	609.9	614.2
37.5°	1367.5	492.8	489.6	525.9	564.0	584.7	597.9	598.7	581.5	582.7
40°	1297.1	472.4	480.0	518.3	551.1	571.1	571.8	527.2	495.6	494.8
42.5°	1239.6	468.4	482.9	517.6	541.9	542.7	486.5	451.7	442.9	443.3
45°	1185.7	467.3	489.2	517.6	528.4	468.8	430.9	421.7	422.5	425.7
47.5°	1125.4	462.5	490.5	510.3	489.2	417.0	405.8	401.8	400.2	401.0
50°	1059.5	445.3	475.3	496.0	422.1	394.6	380.6	379.4	381.4	382.6
52.5°	990.0	417.4	449.3	470.1	391.3	375.0	359.5	362.2	371.0	373.8
55°	944.5	384.6	414.9	418.1	369.8	356.6	343.5	349.8	366.2	371.5
57.5°	932.5	349.8	375.8	372.2	342.2	340.7	332.7	338.2	359.1	366.6
60°	929.0	318.7	337.4	334.7	315.5	323.1	321.1	323.9	331.1	333.4
62.5°	901.0	294.0	303.1	299.1	291.5	304.7	309.5	303.5	309.1	311.9
65°	829.8	274.0	269.6	266.8	270.0	282.0	291.5	279.5	284.7	292.7
67.5°	712.5	246.8	234.8	238.0	248.0	254.4	266.8	253.2	257.6	271.2
70°	576.3	212.5	201.7	210.8	220.5	233.6	235.6	226.4	236.8	252.0
72.5°	407.7	177.7	170.1	188.9	192.1	209.3	204.9	200.5	214.8	220.1
75°	282.8	143.4	139.0	153.3	164.9	179.7	176.5	181.7	212.1	214.4
77.5°	179.0	111.4	108.6	117.8	133.8	150.2	155.4	214.4	362.2	376.6
80°	103.8	83.0	79.8	87.0	101.1	116.2	149.8	263.2	238.8	236.1
82.5°	57.9	57.1	53.1	55.1	67.4	83.8	211.7	185.3	150.6	155.4
85°	27.2	33.5	28.8	27.6	37.9	98.2	141.3	105.9	70.3	68.7
87.5°	7.2	6.4	6.4	7.2	16.0	84.7	56.3	45.1	26.8	25.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)