

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: P961360

Luminaire Tested: **NAV-SB2A-730-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961360
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2A-730-U-AFL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7840.2 lumens
Efficiency: N/A
Efficacy: 136.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

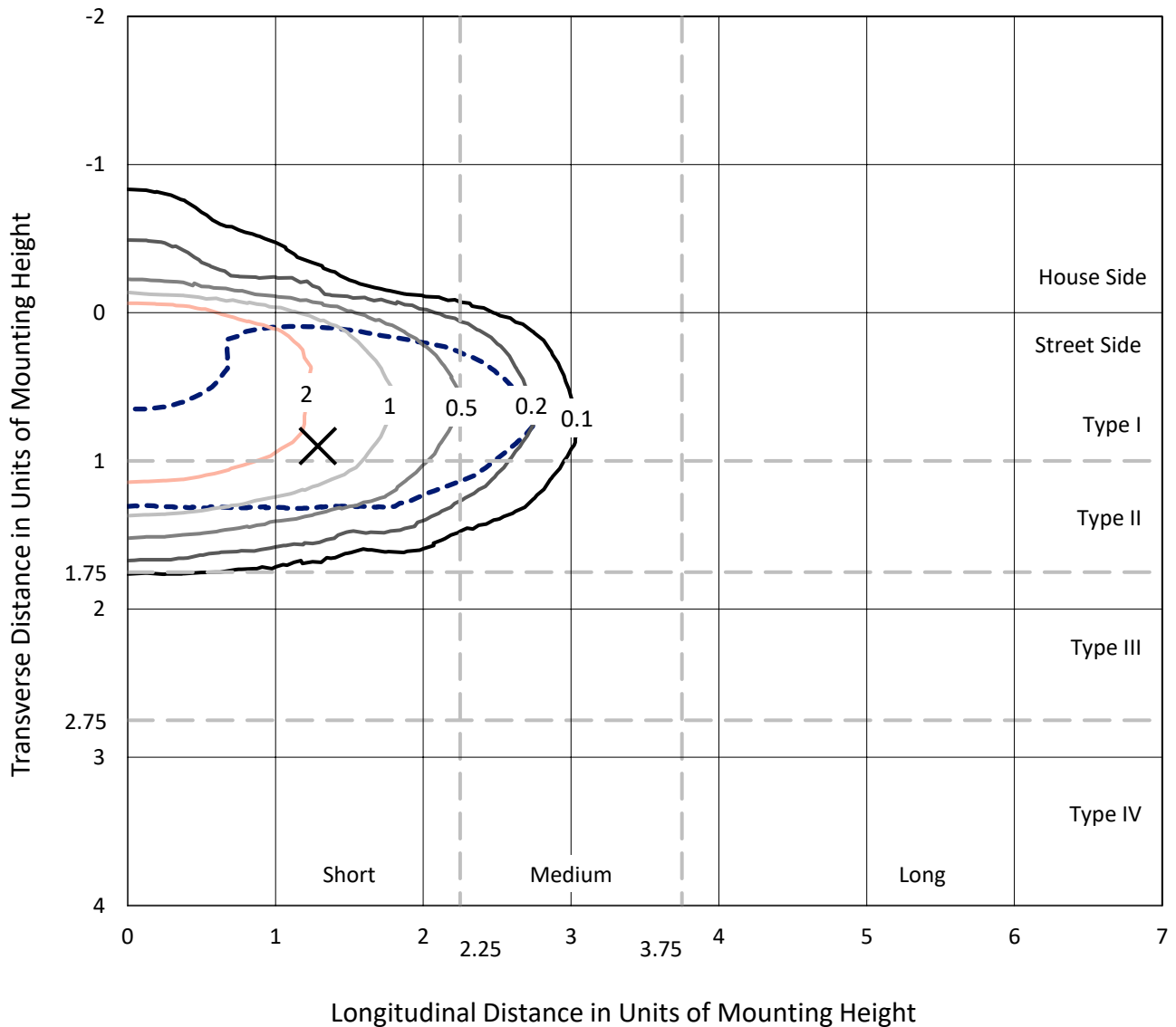
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P961360
 CATALOG NUMBER: NAV-SB2A-730-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

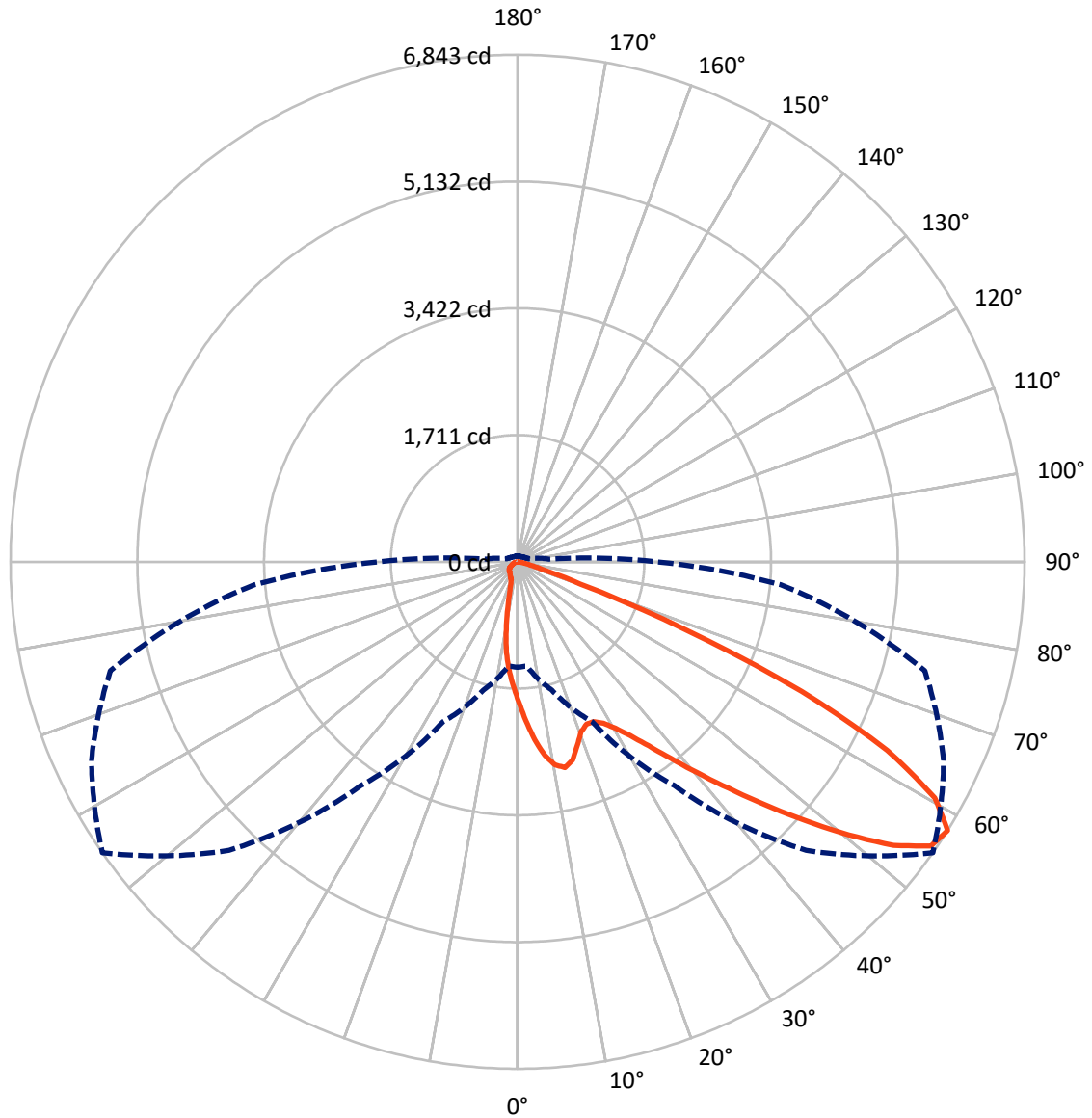
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type II - Short - N/A

REPORT NUMBER: P961360
CATALOG NUMBER: NAV-SB2A-730-U-AFL-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P961360
 CATALOG NUMBER: NAV-SB2A-730-U-AFL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	612.3	0.0	612.3
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	7227.9	0.0	7227.9
	% Fixture	92.2	0.0	92.2
Total	Lumens	7840.2	0.0	7840.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.8	2.2
10°-20°	424.6	5.4
20°-30°	679.4	8.7
30°-40°	1149.9	14.7
40°-50°	1887.9	24.1
50°-60°	2074.9	26.5
60°-70°	1190.2	15.2
70°-80°	243.2	3.1
80°-90°	14.3	0.2
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°	7840.2	100.0
0°-180°	7840.2	100.0

Coefficient of Utilization

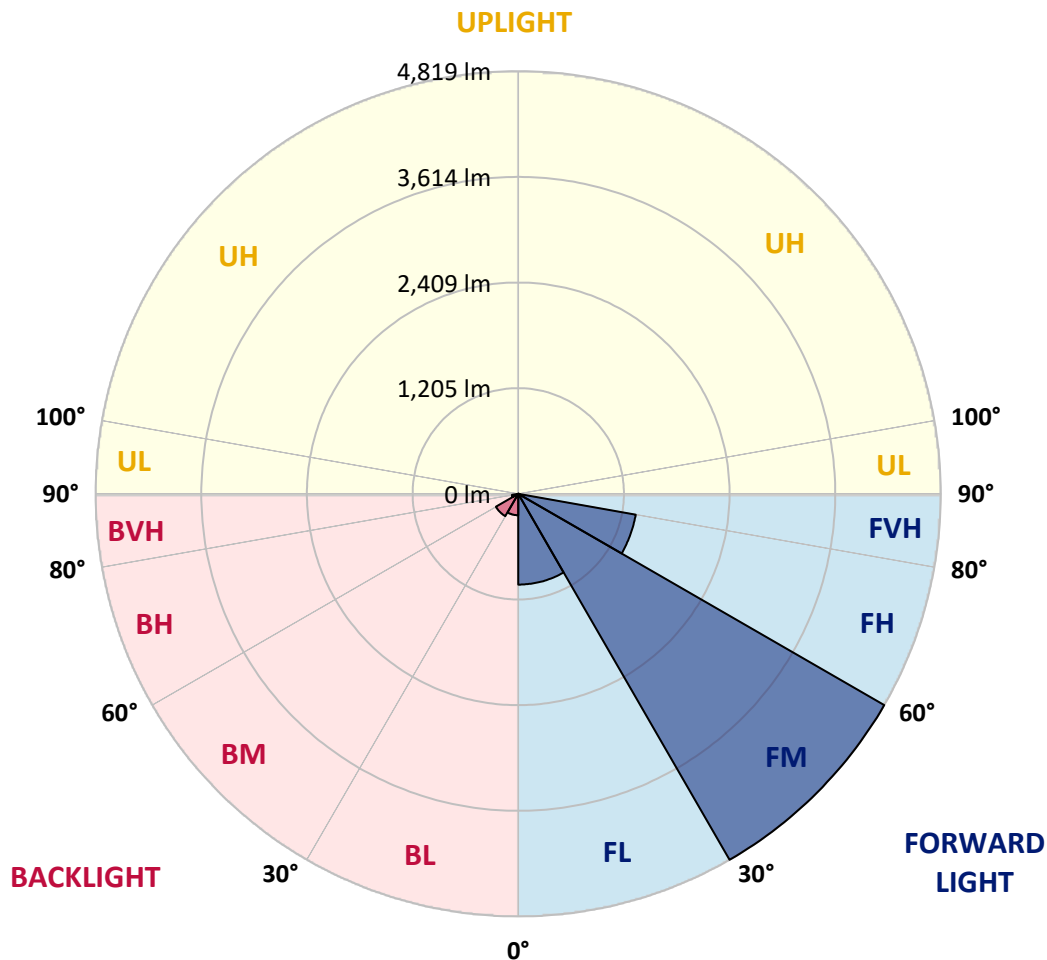


REPORT NUMBER: P961360
 CATALOG NUMBER: NAV-SB2A-730-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1035.3	13.2			
FM (30°-60°)	4818.7	61.5			
FH (60°-80°)	1360.5	17.4			G1/1800
FVH (80°-90°)	13.4	0.2			G1/100
BL (0°-30°)	244.4	3.1	B1/500		
BM (30°-60°)	294.1	3.8	B1/1000		
BH (60°-80°)	72.8	0.9	B0/110		G0/110
BVH (80°-90°)	1.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short



REPORT NUMBER: P961360
 CATALOG NUMBER: NAV-SB2A-730-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1889.3	1889.3	1889.3	1889.3	1889.3	1889.3	1889.3	1889.3	1889.3	1889.3	1889.3
2.5°	2344.2	2314.8	2310.4	2304.6	2248.5	2206.4	2145.5	2078.8	2003.9	1927.5	1893.7
5°	2708.3	2685.1	2680.7	2653.6	2589.8	2518.2	2410.0	2273.1	2133.4	1969.0	1898.5
7.5°	2778.9	2774.5	2794.4	2793.3	2784.6	2728.0	2636.7	2473.7	2264.0	2020.3	1911.0
10°	2464.1	2475.3	2534.2	2586.0	2725.7	2806.9	2787.1	2652.7	2398.4	2078.8	1925.1
12.5°	2177.4	2164.4	2206.4	2264.9	2427.4	2669.1	2849.4	2802.0	2552.1	2145.0	1945.9
15°	1997.6	1992.3	2016.0	2043.0	2166.7	2410.5	2776.9	2923.4	2700.1	2223.3	1977.3
17.5°	1940.0	1935.7	1943.0	1949.8	2030.0	2218.5	2604.3	2997.8	2841.7	2312.8	2012.1
20°	1987.0	1981.1	1980.2	1974.9	2008.2	2136.8	2448.2	3003.1	2968.8	2394.0	2042.1
22.5°	2123.8	2117.0	2093.4	2072.0	2074.9	2148.0	2378.5	2950.0	3064.5	2469.9	2061.0
25°	2371.7	2360.7	2311.4	2239.8	2194.3	2225.3	2389.2	2879.8	3156.0	2529.4	2051.7
27.5°	2682.1	2667.7	2604.3	2497.9	2394.0	2356.3	2466.0	2831.6	3231.8	2574.8	2032.0
30°	2986.2	2967.4	2905.1	2822.3	2670.5	2551.6	2604.8	2852.8	3322.2	2622.2	2005.8
32.5°	3314.5	3296.6	3214.0	3111.5	2985.7	2825.7	2794.8	2956.7	3432.9	2688.5	1987.5
35°	3729.8	3701.7	3584.2	3444.5	3311.2	3149.1	3051.9	3136.1	3580.4	2789.4	1997.6
37.5°	4202.6	4164.9	4038.2	3845.3	3671.2	3490.0	3365.3	3382.7	3796.5	2924.8	2029.0
40°	4648.3	4614.0	4497.0	4315.2	4096.7	3876.8	3743.8	3705.1	4094.8	3089.7	2084.1
42.5°	4915.7	4884.7	4835.4	4758.6	4574.4	4350.0	4182.3	4098.7	4447.7	3287.0	2151.4
45°	4930.7	4903.6	4969.8	5059.3	5023.0	4873.6	4669.1	4515.8	4802.0	3472.1	2221.0
47.5°	4690.9	4672.5	4873.6	5185.9	5341.6	5404.4	5215.9	4898.3	5094.6	3605.0	2249.5
50°	4037.3	4030.5	4444.3	5017.7	5462.9	5869.5	5792.6	5254.0	5321.3	3673.7	2222.4
52.5°	3500.6	3476.0	3717.2	4479.1	5286.4	6114.1	6356.3	5603.2	5479.9	3686.7	2159.1
55°	2655.1	2633.3	2935.9	3578.0	4717.5	6027.1	6768.7	5963.2	5593.4	3653.4	2045.5
57.5°	1424.2	1410.7	1793.1	2381.5	3687.7	5505.0	6843.2	6344.2	5689.2	3565.0	1886.4
60°	554.5	552.1	695.2	1155.5	2241.3	4478.6	6467.5	6572.9	5749.1	3456.1	1753.5
62.5°	335.5	342.8	365.9	518.8	990.0	2782.3	5601.6	6312.8	5789.2	3356.6	1643.7
65°	277.5	278.0	280.8	356.3	474.3	1164.1	4217.1	5457.1	5690.2	3179.1	1488.0
67.5°	237.9	242.2	253.3	282.8	334.6	510.6	2427.8	4227.2	5087.3	2766.3	1245.4
70°	187.6	193.4	207.4	232.6	258.2	319.6	897.3	2812.7	3886.4	2085.1	941.8
72.5°	158.1	157.6	164.8	189.0	205.0	224.8	345.2	1576.0	2258.7	995.4	466.1
75°	122.3	127.1	136.3	158.1	167.8	162.9	187.1	575.7	809.2	301.7	158.6
77.5°	95.7	99.6	107.8	129.0	138.8	115.5	107.8	205.9	260.0	108.3	71.5
80°	43.0	46.4	73.5	95.2	113.2	79.7	58.5	105.4	115.5	49.3	36.3
82.5°	7.7	13.0	43.0	50.3	58.0	51.8	30.4	54.6	56.6	19.8	12.6
85°	0.5	0.9	15.0	18.3	23.2	16.9	9.2	21.7	18.9	6.8	4.8
87.5°	0.0	0.0	0.0	0.5	0.5	2.5	2.9	3.9	2.9	2.5	1.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P961360
 CATALOG NUMBER: NAV-SB2A-730-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1889.3	1889.3	1889.3	1889.3	1889.3	1889.3	1889.3	1889.3	1889.3	1889.3
2.5°	1858.8	1790.2	1723.4	1668.8	1636.9	1582.8	1547.0	1541.2	1526.2	1539.2
5°	1823.1	1700.3	1576.0	1464.8	1373.5	1255.5	1167.5	1130.3	1097.9	1109.0
7.5°	1806.2	1612.3	1418.9	1228.9	1033.6	845.0	704.9	646.4	601.9	608.1
10°	1783.4	1520.9	1217.8	927.7	666.1	480.1	383.3	347.6	327.8	328.3
12.5°	1766.0	1411.6	984.3	628.9	405.6	306.5	276.5	267.8	262.0	262.5
15°	1757.4	1283.1	753.7	419.1	290.1	259.6	252.4	248.5	244.7	244.2
17.5°	1742.8	1140.0	551.7	306.1	253.8	243.1	236.9	232.6	227.7	226.7
20°	1721.1	977.5	403.2	258.6	237.9	229.6	220.9	215.1	209.3	208.4
22.5°	1680.9	805.9	309.9	239.3	226.2	217.1	206.4	199.7	193.8	192.9
25°	1606.5	644.9	261.1	227.2	216.1	205.0	193.4	184.2	178.9	177.9
27.5°	1512.2	506.7	236.9	216.1	203.1	192.9	179.9	171.2	166.3	165.3
30°	1401.1	390.1	222.8	203.6	187.6	178.9	167.3	160.0	157.1	157.1
32.5°	1281.1	311.8	217.1	191.0	174.0	164.4	155.2	152.3	151.3	150.9
35°	1168.5	270.7	214.1	180.8	162.0	152.7	148.9	149.3	151.3	151.3
37.5°	1068.5	257.7	212.7	173.5	151.3	143.1	145.5	149.9	147.9	147.9
40°	978.1	259.1	211.8	168.2	142.6	137.8	142.6	139.2	134.4	133.9
42.5°	908.9	271.2	209.8	163.9	137.2	133.9	132.0	126.7	126.2	127.1
45°	858.6	281.9	209.3	162.0	131.5	125.3	122.8	117.5	127.1	129.6
47.5°	799.1	281.9	209.3	155.2	121.9	119.4	115.5	109.8	119.4	121.9
50°	722.2	263.9	201.1	147.5	114.1	112.6	105.9	98.6	96.7	98.1
52.5°	625.0	231.5	180.3	136.8	106.4	103.4	95.2	89.9	88.5	88.5
55°	514.3	193.8	152.3	121.4	98.1	92.9	87.0	84.6	83.1	82.2
57.5°	418.2	159.1	122.3	107.8	90.4	83.6	81.7	78.8	76.4	74.9
60°	343.3	125.3	101.1	95.7	82.7	76.4	75.8	72.1	65.7	64.8
62.5°	265.0	91.8	85.1	83.1	74.9	69.6	68.7	60.9	51.2	49.3
65°	187.1	71.5	68.7	73.0	66.7	61.9	59.4	47.9	37.7	36.3
67.5°	131.5	60.0	54.1	63.9	58.0	51.8	50.3	40.6	31.5	30.4
70°	93.8	48.8	44.5	54.6	46.4	45.4	42.5	33.8	25.6	24.7
72.5°	66.2	37.2	34.3	47.4	31.9	39.2	34.8	26.1	19.4	18.3
75°	48.8	26.5	24.2	27.6	23.2	29.5	24.7	17.4	12.1	11.6
77.5°	35.8	16.9	14.5	13.5	13.5	18.3	13.5	7.3	5.3	4.8
80°	25.1	7.7	6.8	5.8	5.3	4.3	1.9	0.9	0.5	0.5
82.5°	15.0	3.4	3.4	2.5	1.4	0.0	0.0	0.0	0.0	0.0
85°	3.4	1.4	1.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.5	0.5	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

(END OF REPORT)