

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: P970784

Luminaire Tested: **NAV-SB6C-722-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970784
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-SB6C-722-U-AFL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 615mA 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: 32786.7 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

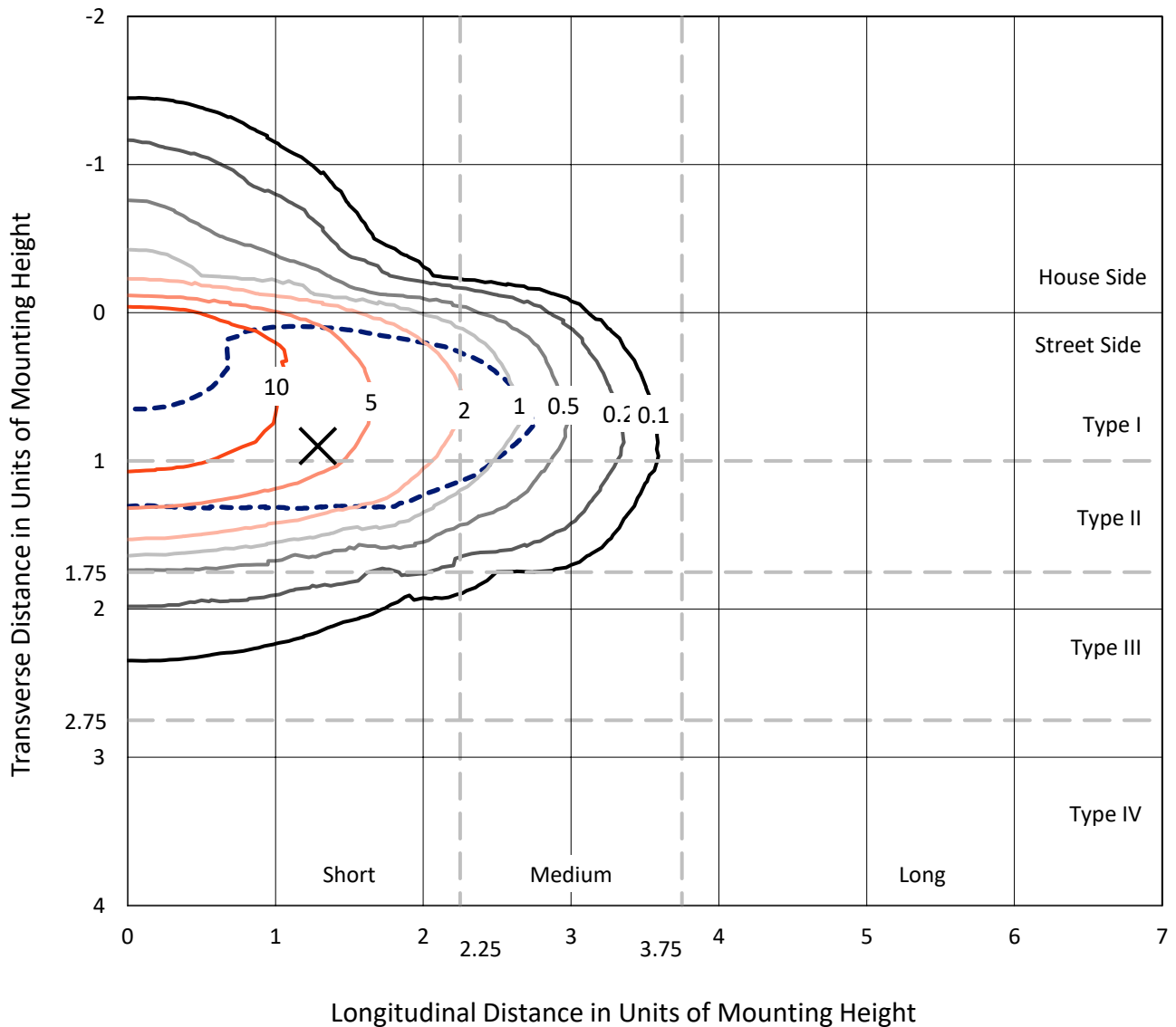
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

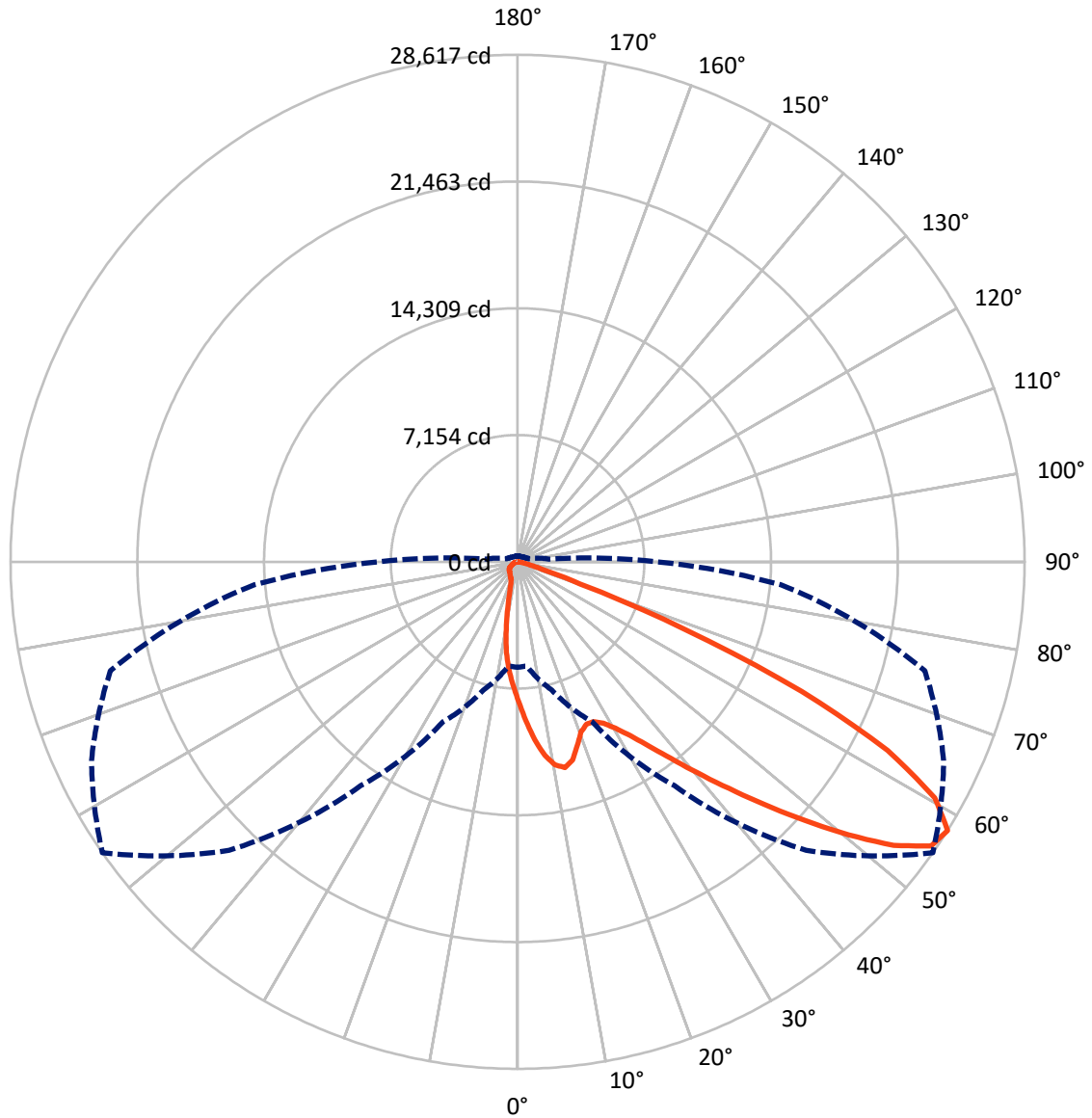
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.1 fc
 Type II - Short - N/A

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CATALOG NUMBER: NAV-SB6C-722-U-AFL-HSS

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	2560.5	0.0	2560.5
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	30226.2	0.0	30226.2
	% Fixture	92.2	0.0	92.2
Total	Lumens	32786.7	0.0	32786.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	735.1	2.2
10°-20°	1775.7	5.4
20°-30°	2841.1	8.7
30°-40°	4808.7	14.7
40°-50°	7894.9	24.1
50°-60°	8677.0	26.5
60°-70°	4977.2	15.2
70°-80°	1017.0	3.1
80°-90°	60.0	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°	32786.7	100.0
0°-180°	32786.7	100.0

Coefficient of Utilization



REPORT NUMBER: P970784

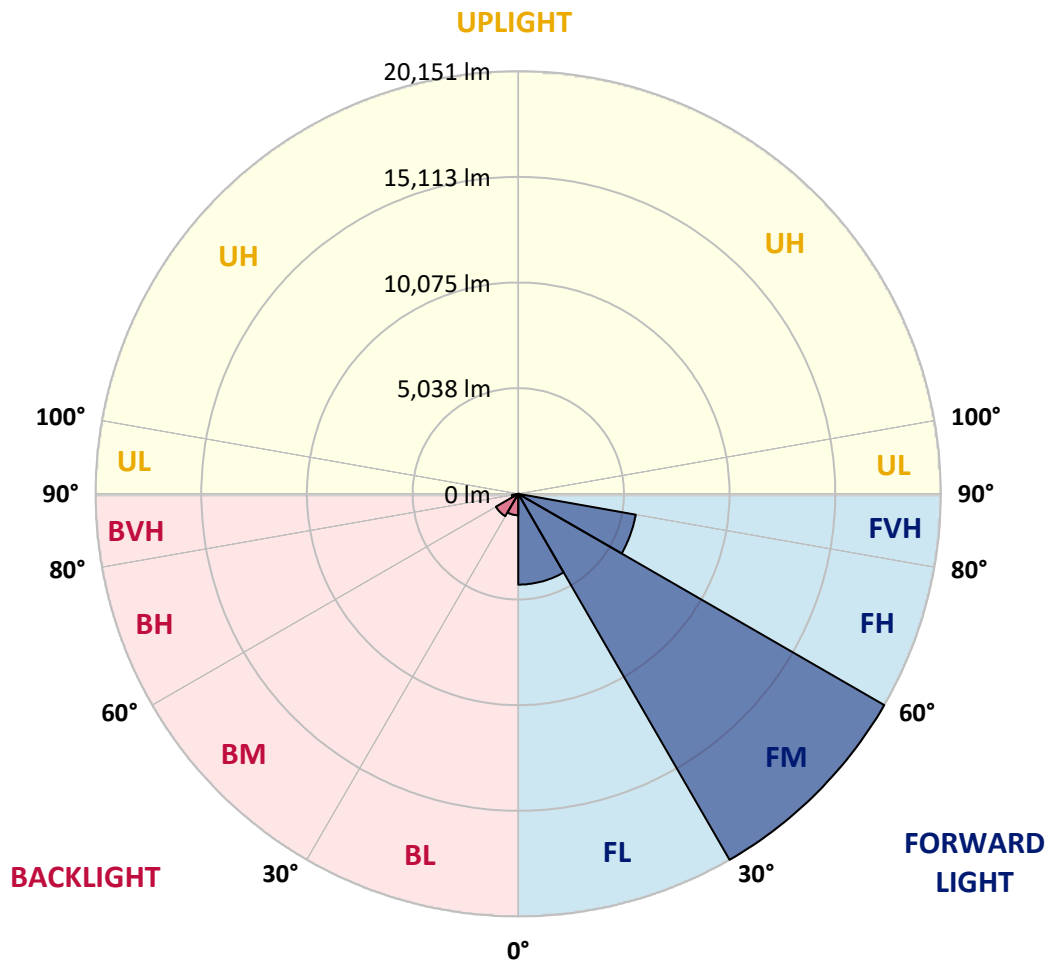
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4329.7	13.2			
FM (30°-60°)	20150.9	61.5			
FH (60°-80°)	5689.6	17.4			G3/7500
FVH (80°-90°)	55.9	0.2			G1/100
BL (0°-30°)	1022.2	3.1	B3/2500		
BM (30°-60°)	1229.7	3.8	B2/2500		
BH (60°-80°)	304.5	0.9	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: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7900.8	7900.8	7900.8	7900.8	7900.8	7900.8	7900.8	7900.8	7900.8	7900.8	7900.8
2.5°	9803.2	9679.9	9661.6	9637.5	9402.9	9227.0	8972.2	8693.3	8379.9	8060.5	7918.9
5°	11325.5	11228.5	11210.3	11097.1	10830.3	10531.1	10078.1	9506.1	8921.7	8234.3	7939.2
7.5°	11620.7	11602.5	11685.4	11681.3	11644.9	11408.5	11026.3	10345.0	9467.6	8448.7	7991.7
10°	10304.5	10351.1	10597.7	10814.1	11398.3	11738.0	11655.1	11093.1	10029.6	8693.3	8050.4
12.5°	9105.7	9051.2	9227.0	9471.6	10150.9	11161.7	11915.8	11717.7	10672.5	8970.3	8137.3
15°	8353.6	8331.4	8430.4	8543.7	9061.2	10080.2	11612.6	12225.2	11291.2	9297.8	8268.8
17.5°	8113.1	8094.8	8125.2	8153.5	8489.0	9277.6	10890.8	12536.6	11883.5	9671.8	8414.3
20°	8309.2	8284.9	8280.9	8258.6	8398.1	8935.8	10237.9	12558.8	12415.2	10011.4	8539.7
22.5°	8881.3	8853.0	8753.9	8664.9	8677.1	8982.4	9946.7	12336.4	12815.5	10328.8	8618.5
25°	9918.4	9872.0	9665.8	9366.6	9176.5	9305.9	9991.2	12043.2	13197.6	10577.5	8580.1
27.5°	11216.4	11155.7	10890.8	10446.1	10011.4	9853.7	10312.6	11841.1	13515.0	10767.5	8497.1
30°	12488.0	12409.2	12148.4	11802.7	11167.9	10670.5	10892.9	11930.0	13893.1	10965.7	8388.0
32.5°	13860.8	13785.9	13440.2	13011.7	12485.9	11816.8	11687.5	12364.7	14356.0	11242.6	8311.2
35°	15597.3	15480.1	14988.9	14404.5	13846.6	13169.3	12763.0	13114.8	14972.7	11665.2	8353.6
37.5°	17574.5	17416.9	16887.2	16080.5	15352.8	14594.6	14073.0	14145.8	15876.3	12231.2	8485.1
40°	19438.6	19295.0	18805.8	18045.6	17131.8	16212.0	15656.0	15494.3	17123.8	12920.6	8715.5
42.5°	20556.6	20427.2	20221.0	19899.6	19129.3	18191.2	17489.7	17139.9	18599.5	13745.5	8996.5
45°	20619.2	20506.0	20783.0	21157.0	21005.4	20380.7	19525.5	18884.6	20081.5	14519.8	9287.6
47.5°	19616.4	19539.7	20380.7	21686.7	22337.7	22600.5	21812.1	20483.8	21304.6	15075.8	9406.9
50°	16883.2	16854.9	18585.4	20983.2	22845.1	24545.4	24223.9	21971.8	22252.7	15362.8	9293.8
52.5°	14639.0	14535.9	15544.8	18731.0	22107.2	25568.3	26581.2	23431.4	22915.9	15417.4	9028.9
55°	11103.1	11012.2	12277.8	14962.5	19727.7	25204.4	28305.8	24937.6	23391.0	15277.9	8553.8
57.5°	5955.9	5899.3	7498.5	9958.9	15421.4	23021.0	28617.1	26530.7	23791.3	14908.0	7888.6
60°	2318.9	2308.8	2907.2	4831.8	9372.6	18729.0	27046.3	27486.9	24042.0	14453.1	7332.6
62.5°	1403.0	1433.4	1530.4	2169.3	4140.4	11634.9	23425.4	26399.3	24209.8	14036.7	6873.8
65°	1160.4	1162.5	1174.6	1489.9	1983.3	4868.2	17635.2	22820.9	23795.4	13294.7	6222.8
67.5°	994.7	1012.9	1059.3	1182.6	1399.0	2134.9	10152.9	17677.7	21274.3	11568.2	5207.9
70°	784.4	808.7	867.4	972.4	1079.6	1336.3	3752.2	11762.2	16252.4	8719.6	3938.3
72.5°	661.1	659.1	689.4	790.5	857.2	940.1	1443.5	6590.7	9445.4	4162.6	1948.9
75°	511.5	531.7	570.1	661.1	701.5	681.3	782.4	2407.8	3384.3	1261.6	663.1
77.5°	400.3	416.5	450.8	539.8	580.3	483.2	450.8	861.2	1087.6	452.8	299.2
80°	179.9	194.0	307.3	398.3	473.0	333.5	244.7	440.7	483.2	206.2	151.6
82.5°	32.4	54.6	179.9	210.2	242.6	216.3	127.4	228.5	236.6	82.9	52.6
85°	2.0	4.0	62.6	76.9	97.1	70.7	38.4	91.0	78.8	28.3	20.2
87.5°	0.0	0.0	0.0	2.0	2.0	10.1	12.1	16.2	12.1	10.1	8.1
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°	7900.8	7900.8	7900.8	7900.8	7900.8	7900.8	7900.8	7900.8	7900.8	7900.8
2.5°	7773.4	7486.3	7207.4	6978.9	6845.5	6619.0	6469.4	6445.2	6382.5	6437.1
5°	7623.8	7110.3	6590.7	6125.7	5743.6	5250.4	4882.4	4726.7	4591.3	4637.8
7.5°	7553.0	6742.3	5933.6	5139.1	4322.4	3533.9	2947.6	2703.0	2517.0	2543.3
10°	7458.0	6360.2	5092.6	3879.6	2785.8	2007.6	1603.2	1453.6	1370.7	1372.7
12.5°	7385.2	5903.4	4116.2	2630.3	1696.2	1281.8	1156.4	1120.0	1095.7	1097.8
15°	7348.8	5365.6	3151.8	1752.9	1213.0	1085.7	1055.3	1039.1	1023.0	1021.0
17.5°	7288.2	4767.2	2306.8	1279.7	1061.4	1016.9	990.7	972.4	952.2	948.1
20°	7197.2	4087.9	1686.1	1081.6	994.7	960.3	923.9	899.6	875.4	871.4
22.5°	7029.4	3370.2	1295.9	1000.7	946.2	907.7	863.3	835.0	810.7	806.7
25°	6718.1	2697.0	1091.7	950.2	903.7	857.2	808.7	770.3	748.0	743.9
27.5°	6323.8	2118.8	990.7	903.7	849.1	806.7	752.0	715.7	695.5	691.5
30°	5858.9	1631.5	932.0	851.2	784.4	748.0	699.5	669.2	657.0	657.0
32.5°	5357.5	1304.0	907.7	798.6	727.9	687.4	648.9	636.8	632.8	630.8
35°	4886.5	1132.1	895.6	756.1	677.2	638.9	622.7	624.7	632.8	632.8
37.5°	4468.0	1077.6	889.5	725.8	632.8	598.4	608.5	626.7	618.6	618.6
40°	4089.9	1083.6	885.5	703.6	596.4	576.2	596.4	582.2	562.0	560.1
42.5°	3800.8	1134.2	877.4	685.3	574.2	560.1	552.0	529.7	527.7	531.7
45°	3590.6	1178.6	875.4	677.2	549.9	523.6	513.5	491.3	531.7	541.8
47.5°	3341.9	1178.6	875.4	648.9	509.4	499.4	483.2	458.9	499.4	509.4
50°	3020.4	1103.8	841.0	616.6	477.1	471.1	442.8	412.5	404.4	410.4
52.5°	2614.1	968.4	754.1	572.2	444.7	432.7	398.3	376.1	369.9	369.9
55°	2151.1	810.7	636.8	507.5	410.4	388.2	363.9	353.8	347.8	343.7
57.5°	1748.8	665.1	511.5	450.8	378.0	349.7	341.6	329.5	319.4	313.3
60°	1435.4	523.6	422.5	400.3	345.7	319.4	317.4	301.2	274.9	270.9
62.5°	1107.9	384.2	355.8	347.8	313.3	291.1	287.1	254.7	214.3	206.2
65°	782.4	299.2	287.1	305.2	279.0	258.8	248.7	200.2	157.6	151.6
67.5°	549.9	250.7	226.4	266.9	242.6	216.3	210.2	169.8	131.4	127.4
70°	392.2	204.2	186.0	228.5	194.0	190.0	177.9	141.6	107.1	103.1
72.5°	277.0	155.7	143.5	198.1	133.5	163.8	145.5	109.2	80.9	76.9
75°	204.2	111.2	101.1	115.2	97.1	123.3	103.1	72.8	50.5	48.5
77.5°	149.6	70.7	60.7	56.6	56.6	76.9	56.6	30.3	22.2	20.2
80°	105.2	32.4	28.3	24.3	22.2	18.2	8.1	4.0	2.0	2.0
82.5°	62.6	14.1	14.1	10.1	6.0	0.0	0.0	0.0	0.0	0.0
85°	14.1	6.0	6.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	2.0	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)