

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: P964475

Luminaire Tested: **NAV-SB3C-722-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964475
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-722-U-T2R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16108.9 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

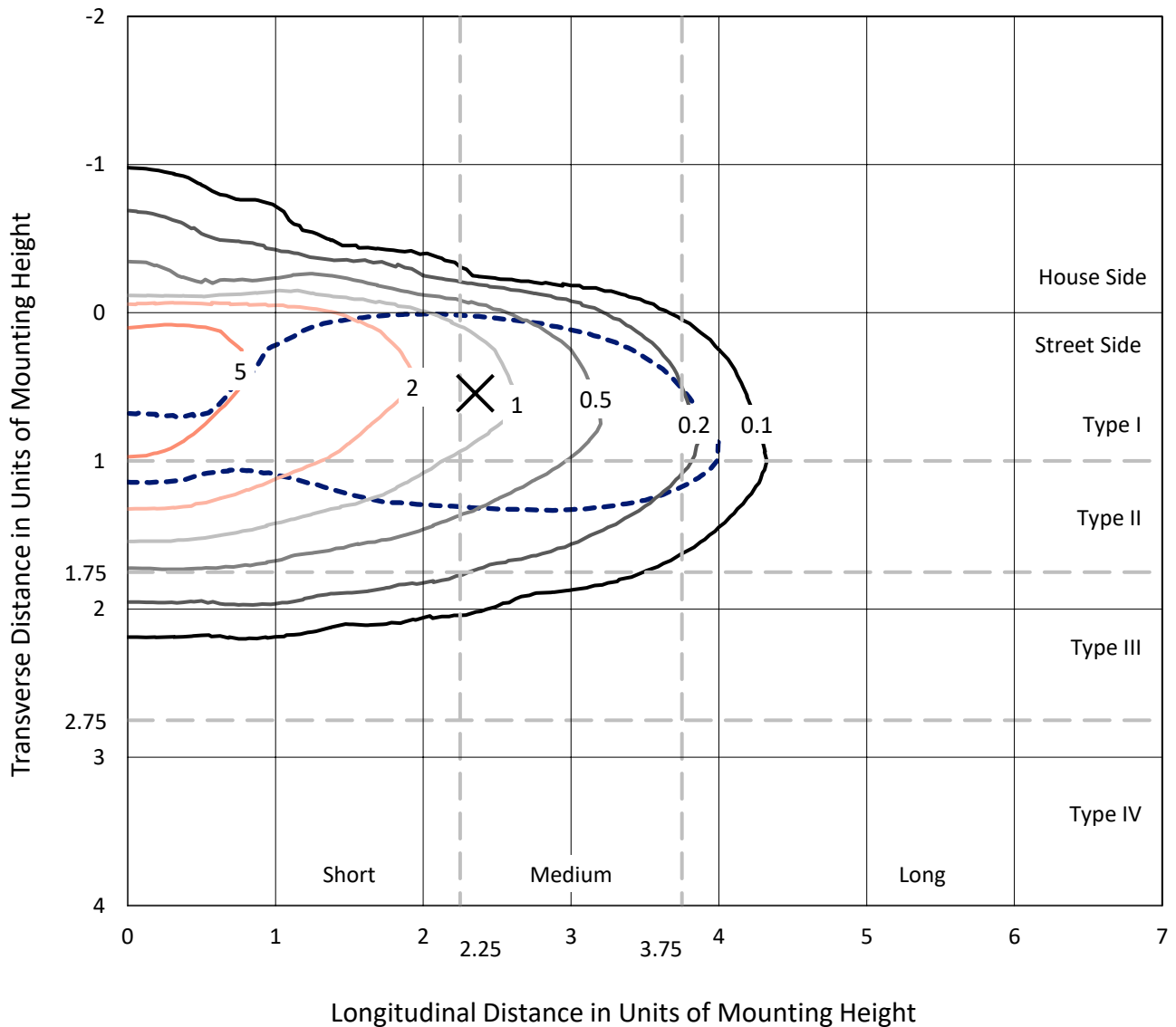
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

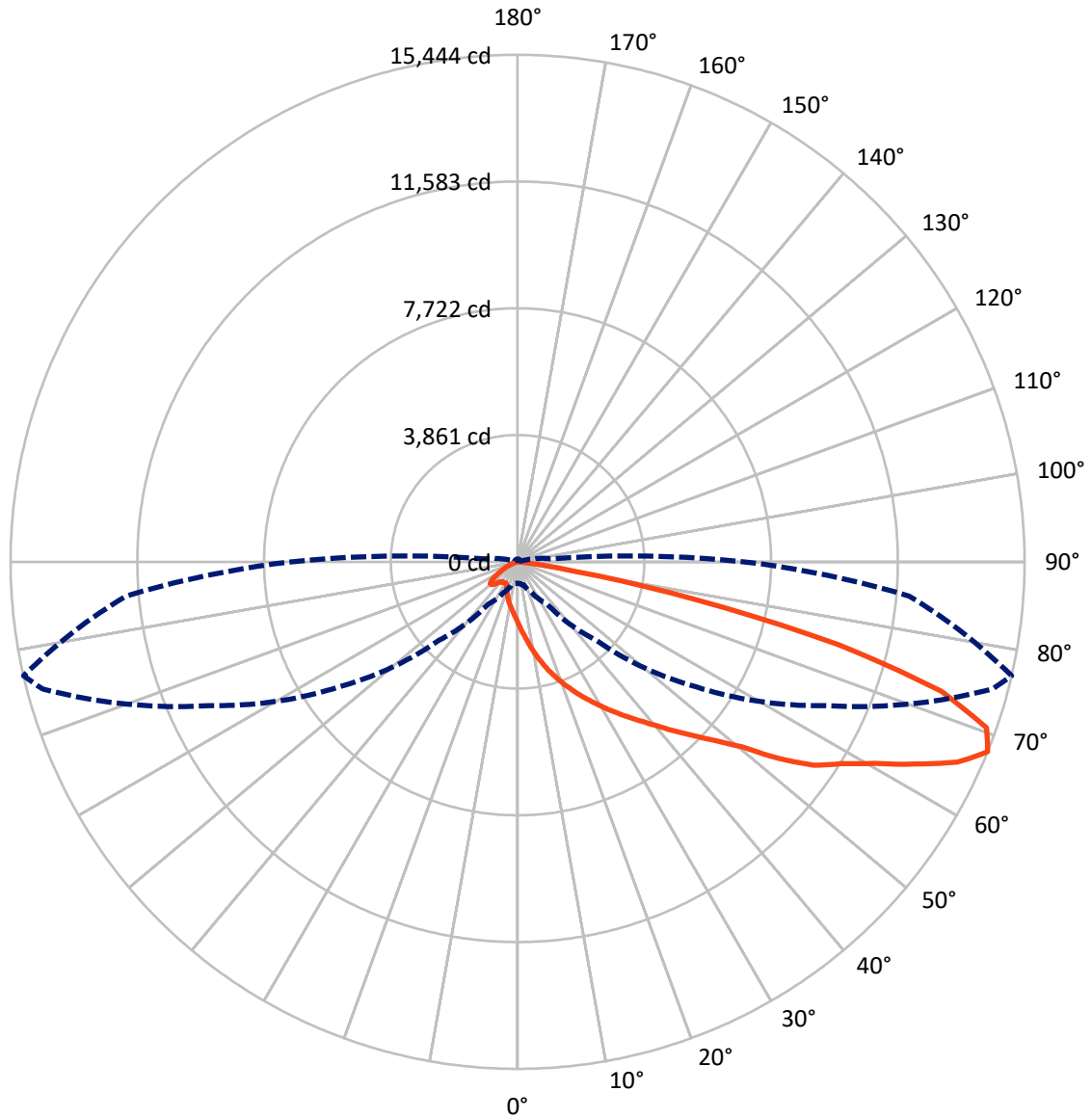
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1185.1	0.0	1185.1
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	14923.8	0.0	14923.8
	% Fixture	92.6	0.0	92.6
Total	Lumens	16108.9	0.0	16108.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.6	1.2
10°-20°	663.9	4.1
20°-30°	1281.2	8.0
30°-40°	2224.3	13.8
40°-50°	3229.6	20.0
50°-60°	3708.8	23.0
60°-70°	3219.9	20.0
70°-80°	1516.6	9.4
80°-90°	75.0	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°	16108.9	100.0
0°-180°	16108.9	100.0

Coefficient of Utilization

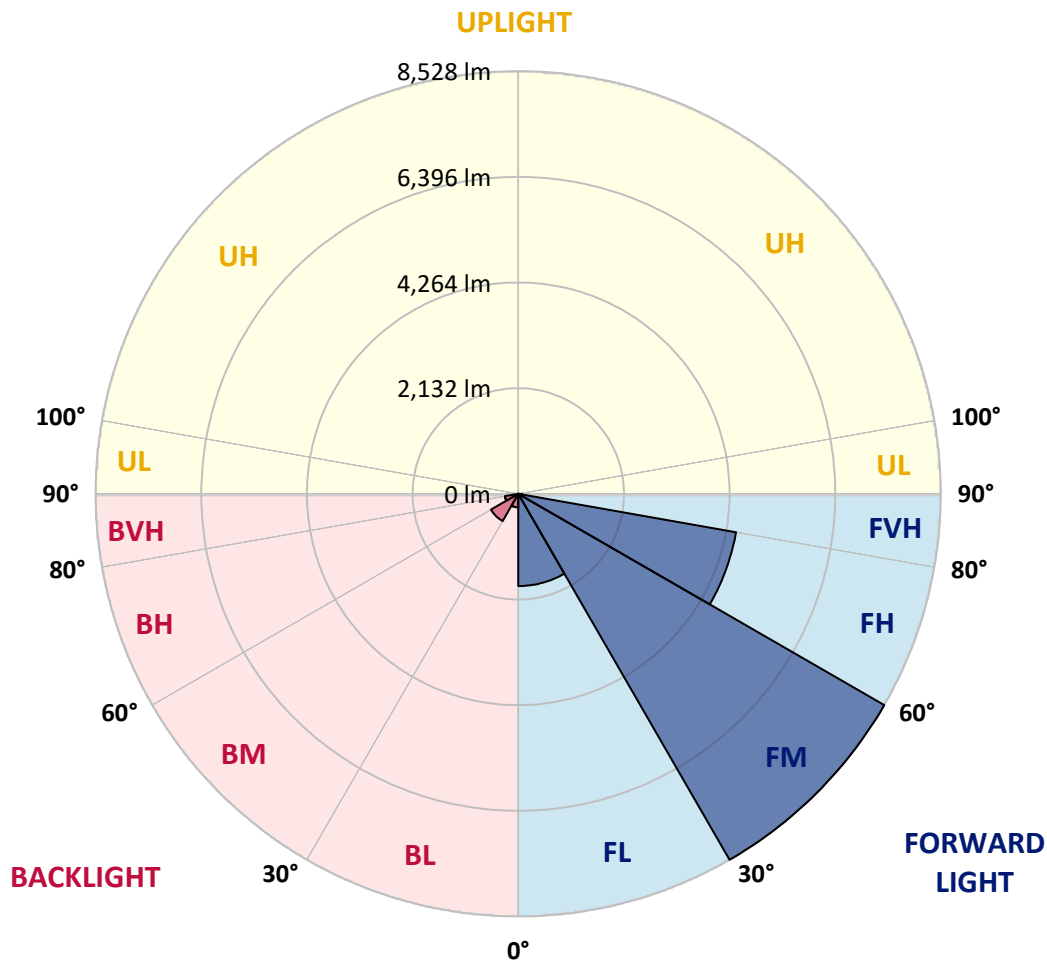


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1860.4	11.5			
FM (30°-60°)	8527.6	52.9			
FH (60°-80°)	4462.1	27.7			G2/5000
FVH (80°-90°)	73.6	0.5			G1/100
BL (0°-30°)	274.4	1.7	B1/500		
BM (30°-60°)	635.0	3.9	B1/1000		
BH (60°-80°)	274.4	1.7	B1/500		G1/500
BVH (80°-90°)	1.4	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-G2
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1857.6	1857.6	1857.6	1857.6	1857.6	1857.6	1857.6	1857.6	1857.6	1857.6	1857.6
2.5°	2571.8	2587.8	2564.9	2520.8	2454.8	2411.7	2306.8	2207.7	2097.7	2062.6	1952.6
5°	3135.0	3149.0	3123.0	3075.0	2987.0	2902.9	2764.8	2557.8	2342.7	2273.8	2078.7
7.5°	3552.1	3560.1	3550.1	3506.1	3422.1	3327.0	3173.0	2927.9	2608.8	2532.8	2233.7
10°	3852.3	3878.2	3875.2	3858.2	3802.2	3725.2	3561.2	3282.0	2906.9	2808.9	2408.8
12.5°	4051.3	4080.3	4097.3	4135.4	4132.3	4083.3	3939.3	3644.2	3204.0	3088.9	2605.9
15°	4109.3	4140.3	4205.4	4293.4	4371.4	4396.4	4295.4	3999.2	3531.1	3384.0	2807.9
17.5°	4076.3	4124.3	4202.3	4341.4	4512.5	4625.5	4614.4	4342.4	3828.3	3660.2	3005.9
20°	4149.3	4195.3	4256.3	4373.4	4572.4	4777.5	4859.5	4670.5	4123.3	3947.3	3214.0
22.5°	4553.5	4545.5	4551.4	4570.5	4689.5	4892.5	5061.7	4968.6	4415.4	4235.4	3434.1
25°	5193.7	5157.7	5096.6	4993.6	4963.6	5061.7	5237.6	5232.6	4723.5	4530.4	3659.1
27.5°	5927.9	5921.9	5778.8	5530.8	5390.7	5352.8	5436.7	5489.8	5028.6	4822.5	3885.3
30°	6631.1	6647.1	6454.0	6178.0	5920.9	5771.9	5695.8	5733.8	5338.7	5137.6	4118.3
32.5°	7243.3	7260.3	7050.3	6727.2	6409.0	6229.0	6068.9	5974.9	5676.9	5457.7	4374.4
35°	7760.5	7777.5	7536.4	7179.3	6840.1	6677.2	6496.0	6239.0	6017.0	5812.9	4659.4
37.5°	8222.7	8217.6	7894.6	7534.4	7201.3	7072.3	6977.3	6564.1	6367.0	6170.0	4975.6
40°	8495.7	8516.7	8240.6	7843.5	7520.4	7426.3	7420.4	6967.2	6771.2	6580.1	5321.7
42.5°	8575.8	8612.8	8412.7	8086.5	7793.5	7691.5	7848.5	7403.4	7241.3	7055.3	5712.8
45°	8431.6	8467.7	8376.7	8150.6	7979.5	7913.5	8216.6	7855.5	7743.5	7559.4	6154.0
47.5°	8011.6	8056.6	8078.5	8030.6	8028.5	8095.6	8546.8	8331.6	8339.7	8151.6	6665.2
50°	7198.3	7274.3	7476.4	7646.4	7909.5	8239.7	8867.8	8847.8	9011.9	8849.8	7331.3
52.5°	5719.8	5827.8	6524.1	6989.3	7580.4	8212.6	9220.9	9676.1	10191.3	9954.2	8270.6
55°	4596.5	4596.5	5162.6	6032.9	6938.2	8034.6	9375.0	10214.2	10994.6	10938.5	8931.8
57.5°	3747.2	3792.2	4153.3	4922.6	6009.0	7610.4	9470.0	10552.4	11641.7	11600.7	9578.0
60°	2312.7	2409.8	3092.0	3851.2	4951.6	6855.2	9410.0	10894.5	12427.0	12460.0	10356.3
62.5°	1302.4	1338.4	1642.6	2770.9	3850.2	5839.8	8950.8	11085.6	13431.3	13571.3	11158.6
65°	899.3	917.3	1034.3	1724.6	2668.9	4649.5	8053.5	10966.5	14437.6	14720.7	11838.7
67.5°	653.2	662.3	735.2	1053.3	1583.5	3371.1	6647.1	10366.3	14970.7	15443.9	11968.8
70°	502.1	508.2	561.2	692.2	935.3	2080.6	4827.5	9172.9	14584.6	15149.8	11302.6
72.5°	408.2	414.1	455.1	512.2	620.2	1230.4	2926.0	7449.4	12880.2	13490.3	9622.1
75°	344.1	352.1	389.1	426.1	486.2	790.3	1372.5	5187.6	9686.0	10086.2	6691.1
77.5°	191.1	176.1	316.1	353.1	410.1	500.2	642.2	3053.0	5424.7	5535.7	2968.9
80°	119.0	123.0	251.1	284.1	315.1	252.0	294.1	1175.4	1880.6	1786.6	575.2
82.5°	7.0	16.0	193.1	205.1	216.1	108.0	111.0	399.1	453.2	416.2	102.0
85°	0.0	0.0	88.0	71.0	75.0	31.1	32.0	93.1	61.0	66.0	20.0
87.5°	0.0	0.0	0.0	2.0	0.0	3.0	6.0	8.0	3.0	4.0	7.0
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°	1857.6	1857.6	1857.6	1857.6	1857.6	1857.6	1857.6	1857.6	1857.6	1857.6	1857.6
2.5°	1882.6	1812.6	1670.5	1531.5	1418.5	1313.4	1238.4	1167.4	1131.4	1129.3	1127.4
5°	1939.6	1792.6	1508.5	1257.4	1055.3	893.3	788.2	713.2	675.2	662.3	660.2
7.5°	2019.7	1798.6	1366.4	1017.3	779.2	640.2	580.2	556.2	548.2	539.2	537.2
10°	2120.7	1812.6	1239.4	819.3	614.2	544.2	520.2	510.1	504.2	498.2	496.2
12.5°	2233.7	1825.6	1113.4	680.2	540.2	504.2	487.2	475.2	467.2	460.1	458.2
15°	2343.8	1833.6	982.4	583.2	502.1	473.1	455.1	442.2	431.1	423.1	422.1
17.5°	2452.8	1844.6	859.3	525.2	471.2	442.2	424.1	408.2	399.1	390.1	389.1
20°	2573.8	1842.5	743.2	484.1	440.1	411.1	392.2	377.1	368.1	358.1	357.1
22.5°	2685.8	1832.6	641.2	449.2	408.2	380.2	359.2	344.1	335.1	327.1	326.2
25°	2814.9	1824.6	556.2	417.2	378.1	350.1	327.1	313.1	303.1	296.1	295.1
27.5°	2939.0	1812.6	494.2	388.2	349.1	322.1	300.1	284.1	275.1	270.1	270.1
30°	3061.0	1809.5	471.2	360.1	323.1	296.1	274.1	259.1	252.0	250.1	249.1
32.5°	3208.0	1817.5	481.1	350.1	299.1	272.1	251.1	240.1	233.1	233.1	233.1
35°	3365.1	1815.6	496.2	359.2	283.1	248.0	232.1	225.1	218.1	218.1	218.1
37.5°	3562.2	1818.6	508.2	374.1	277.1	228.1	219.0	210.0	206.0	206.0	206.0
40°	3856.3	1917.6	502.1	387.1	275.1	214.0	196.1	193.1	190.0	190.0	190.0
42.5°	4216.3	2132.7	510.1	388.2	274.1	204.1	180.1	186.0	179.1	178.0	177.0
45°	4610.4	2367.8	561.2	367.2	273.1	199.1	172.1	179.1	168.1	168.1	168.1
47.5°	5001.6	2600.8	613.2	337.1	270.1	198.0	165.0	161.0	158.1	159.1	159.1
50°	5540.7	2790.9	633.2	296.1	263.1	196.1	152.0	153.0	151.1	153.0	153.0
52.5°	6128.0	2830.9	609.2	250.1	243.0	190.0	143.1	147.1	146.1	148.0	148.0
55°	6494.1	2787.9	503.2	208.1	212.1	166.0	134.1	142.1	142.1	142.1	142.1
57.5°	6872.2	2604.8	357.1	169.0	176.1	136.0	126.1	137.0	136.0	135.0	135.0
60°	7144.2	2308.7	235.0	139.1	140.0	112.0	117.1	129.0	128.0	123.0	123.0
62.5°	7347.3	1981.6	151.1	118.1	107.0	101.1	107.0	117.1	113.1	102.0	100.0
65°	7324.3	1528.5	116.0	101.1	88.0	88.0	93.1	102.0	90.0	72.1	70.0
67.5°	6897.2	1034.3	96.0	85.1	74.0	73.0	77.0	85.1	77.0	61.0	59.0
70°	6133.9	676.2	77.0	66.0	59.0	54.0	62.0	73.0	65.0	49.0	47.0
72.5°	4978.6	412.2	58.0	48.0	43.0	35.1	49.0	60.1	52.0	36.0	34.0
75°	3221.1	210.0	40.0	31.1	23.0	21.0	36.0	45.0	36.0	22.0	19.0
77.5°	1232.4	88.0	22.0	14.0	12.0	10.0	20.0	27.0	15.0	5.0	4.0
80°	237.1	37.0	11.0	7.0	6.0	4.0	3.0	2.0	0.0	0.0	0.0
82.5°	41.0	12.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.0	0.0	0.0	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	0.0

(END OF REPORT)