

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: P962894

Luminaire Tested: **NAV-SB2D-722-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962894
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-SB2D-722-U-T2R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 900mA 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: 14589.9 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

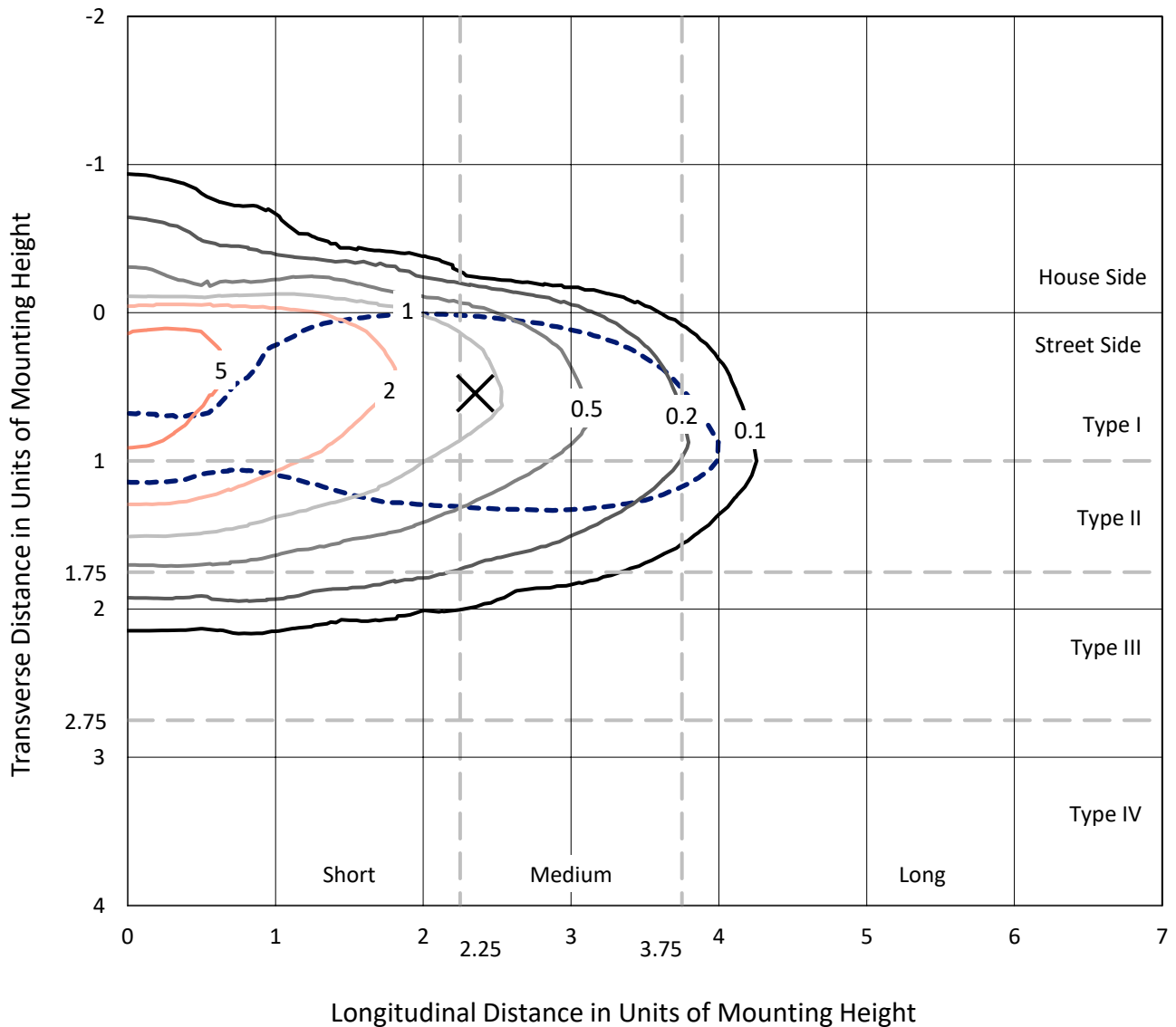
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

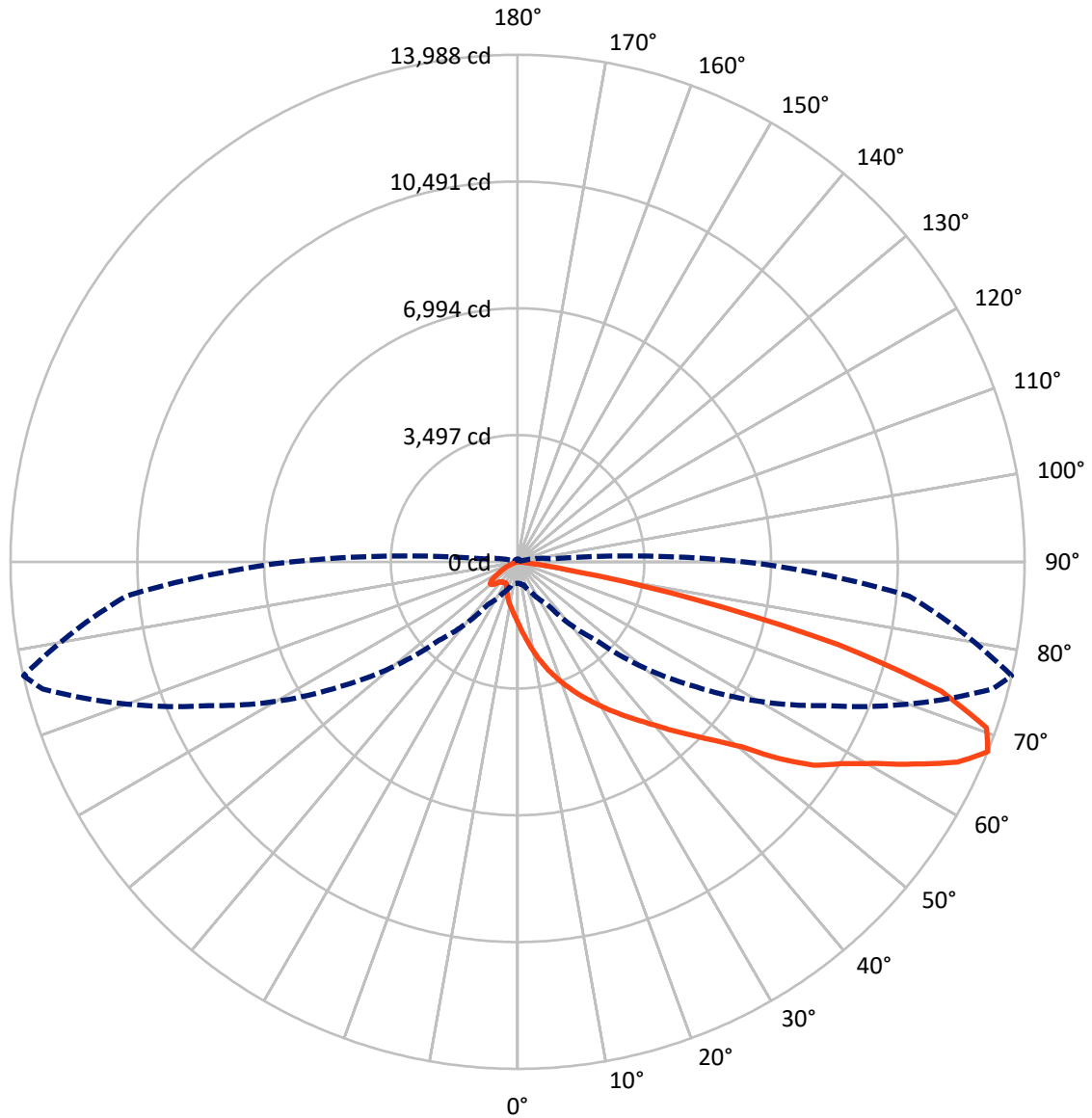
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	1073.4	0.0	1073.4
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	13516.5	0.0	13516.5
	% Fixture	92.6	0.0	92.6
Total	Lumens	14589.9	0.0	14589.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.7	1.2
10°-20°	601.3	4.1
20°-30°	1160.4	8.0
30°-40°	2014.6	13.8
40°-50°	2925.0	20.0
50°-60°	3359.0	23.0
60°-70°	2916.3	20.0
70°-80°	1373.6	9.4
80°-90°	67.9	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°	14589.9	100.0
0°-180°	14589.9	100.0

Coefficient of Utilization

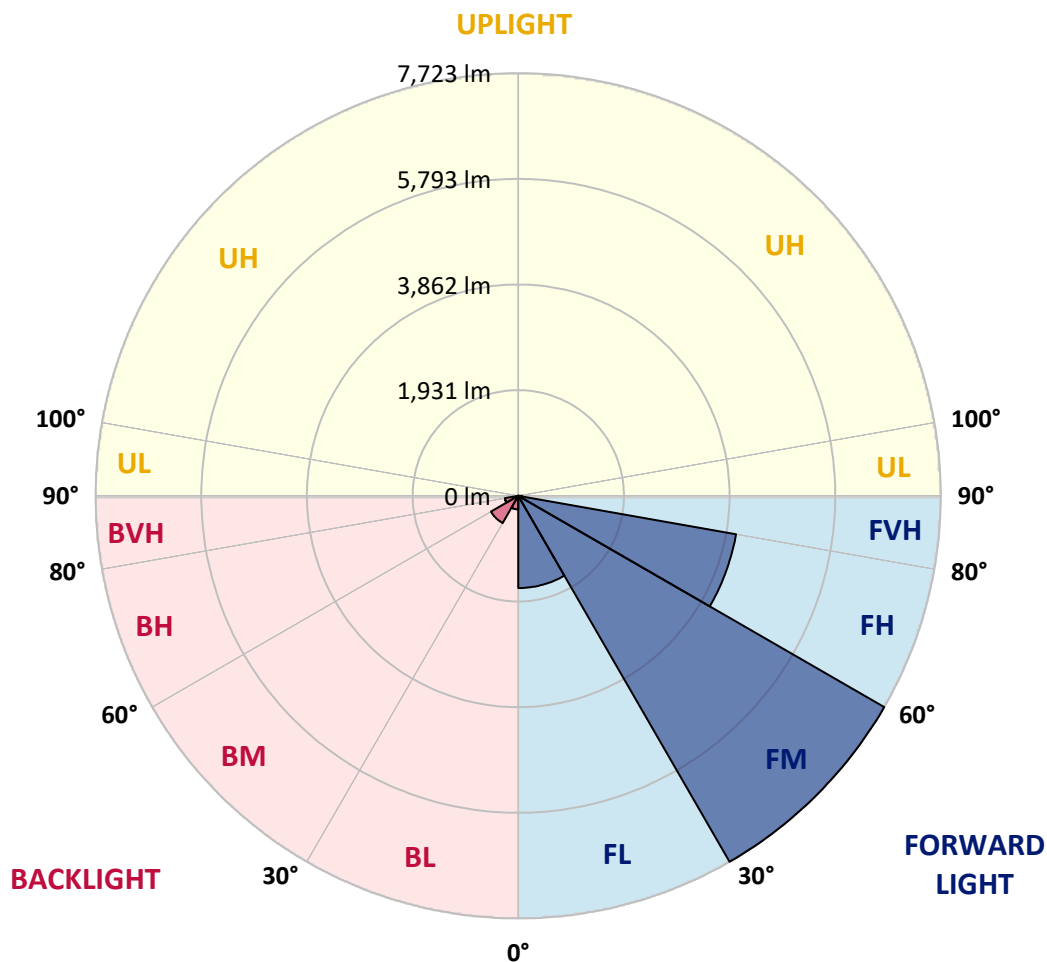


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1685.0	11.5			
FM (30°-60°)	7723.5	52.9			
FH (60°-80°)	4041.3	27.7			G2/5000
FVH (80°-90°)	66.7	0.5			G1/100
BL (0°-30°)	248.5	1.7	B1/500		
BM (30°-60°)	575.1	3.9	B1/1000		
BH (60°-80°)	248.5	1.7	B1/500		G1/500
BVH (80°-90°)	1.2	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°	1682.4	1682.4	1682.4	1682.4	1682.4	1682.4	1682.4	1682.4	1682.4	1682.4	1682.4
2.5°	2329.3	2343.8	2323.0	2283.1	2223.3	2184.4	2089.3	1999.6	1899.8	1868.2	1768.5
5°	2839.4	2852.1	2828.5	2785.0	2705.3	2629.2	2504.2	2316.6	2121.9	2059.3	1882.6
7.5°	3217.2	3224.4	3215.3	3175.4	3099.4	3013.3	2873.8	2651.9	2362.8	2294.0	2023.0
10°	3489.0	3512.6	3509.8	3494.4	3443.7	3373.9	3225.4	2972.6	2632.8	2544.0	2181.6
12.5°	3669.3	3695.5	3710.9	3745.3	3742.7	3698.3	3567.8	3300.5	2901.9	2797.7	2360.1
15°	3721.8	3749.9	3808.8	3888.5	3959.2	3981.8	3890.3	3622.1	3198.1	3065.0	2543.1
17.5°	3691.9	3735.4	3806.0	3932.0	4086.9	4189.3	4179.3	3932.9	3467.3	3315.1	2722.5
20°	3758.1	3799.7	3855.0	3961.0	4141.3	4327.0	4401.3	4230.1	3734.5	3575.0	2910.9
22.5°	4124.1	4116.8	4122.2	4139.5	4247.3	4431.2	4584.3	4500.1	3999.0	3836.0	3110.3
25°	4703.9	4671.3	4616.0	4522.7	4495.5	4584.3	4743.8	4739.2	4278.0	4103.3	3314.1
27.5°	5369.0	5363.4	5234.0	5009.2	4882.4	4847.9	4924.1	4972.1	4554.4	4367.7	3518.8
30°	6005.8	6020.3	5845.5	5595.4	5362.6	5227.6	5158.7	5193.2	4835.2	4653.2	3730.0
32.5°	6560.3	6575.7	6385.4	6092.8	5804.7	5641.6	5496.7	5411.5	5141.5	4943.1	3961.9
35°	7028.6	7044.1	6825.8	6502.3	6195.2	6047.5	5883.5	5650.6	5449.5	5264.7	4220.1
37.5°	7447.2	7442.7	7150.1	6823.9	6522.2	6405.3	6319.3	5945.1	5766.6	5588.2	4506.4
40°	7694.6	7713.6	7463.5	7103.9	6811.2	6726.0	6720.6	6310.2	6132.7	5959.6	4819.9
42.5°	7767.0	7800.6	7619.3	7324.0	7058.6	6966.2	7108.4	6705.2	6558.5	6390.0	5174.1
45°	7636.6	7669.3	7586.7	7382.0	7227.1	7167.3	7441.8	7114.7	7013.3	6846.6	5573.6
47.5°	7256.1	7296.9	7316.8	7273.3	7271.5	7332.1	7740.8	7545.9	7553.2	7382.9	6036.6
50°	6519.5	6588.4	6771.4	6925.4	7163.6	7462.6	8031.6	8013.4	8162.1	8015.3	6640.1
52.5°	5180.5	5278.3	5908.9	6330.2	6865.6	7438.2	8351.4	8763.6	9230.2	9015.5	7490.7
55°	4163.0	4163.0	4675.8	5464.1	6284.0	7276.9	8490.9	9251.0	9957.8	9907.0	8089.6
57.5°	3393.9	3434.6	3761.6	4458.3	5442.2	6892.8	8577.0	9557.3	10543.9	10506.8	8674.9
60°	2094.7	2182.5	2800.4	3488.1	4484.7	6208.7	8522.7	9867.2	11255.1	11285.0	9379.7
62.5°	1179.6	1212.2	1487.7	2509.6	3487.2	5289.2	8106.8	10040.2	12164.7	12291.6	10106.3
65°	814.5	830.8	936.7	1561.9	2417.2	4211.0	7294.1	9932.4	13076.1	13332.6	10722.4
67.5°	591.6	599.7	665.9	954.0	1434.2	3053.2	6020.3	9388.8	13559.0	13987.6	10840.2
70°	454.8	460.2	508.3	627.0	847.1	1884.5	4372.3	8307.9	13209.4	13721.3	10236.8
72.5°	369.6	375.0	412.3	463.9	561.7	1114.4	2650.0	6747.0	11665.5	12218.2	8714.8
75°	311.7	318.9	352.4	385.9	440.3	715.8	1243.0	4698.5	8772.7	9135.1	6060.2
77.5°	173.0	159.5	286.3	319.8	371.5	452.9	581.7	2765.0	4913.2	5013.8	2689.0
80°	107.8	111.4	227.4	257.3	285.4	228.3	266.4	1064.6	1703.2	1618.1	520.9
82.5°	6.4	14.5	174.9	185.7	195.7	97.9	100.6	361.5	410.4	376.9	92.5
85°	0.0	0.0	79.7	64.4	68.0	28.1	29.0	84.3	55.2	59.8	18.1
87.5°	0.0	0.0	0.0	1.8	0.0	2.8	5.4	7.3	2.8	3.6	6.4
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°	1682.4	1682.4	1682.4	1682.4	1682.4	1682.4	1682.4	1682.4	1682.4	1682.4	1682.4
2.5°	1705.1	1641.6	1513.0	1387.0	1284.7	1189.6	1121.7	1057.3	1024.7	1022.8	1021.0
5°	1756.7	1623.5	1366.2	1138.9	955.8	809.0	713.9	646.0	611.5	599.7	598.0
7.5°	1829.2	1628.9	1237.6	921.4	705.8	579.8	525.5	503.7	496.5	488.3	486.6
10°	1920.7	1641.6	1122.5	742.0	556.3	492.8	471.1	462.1	456.6	451.2	449.4
12.5°	2023.0	1653.4	1008.4	616.0	489.2	456.6	441.3	430.3	423.1	416.8	414.9
15°	2122.8	1660.7	889.7	528.2	454.8	428.6	412.3	400.5	390.5	383.2	382.3
17.5°	2221.5	1670.6	778.3	475.6	426.7	400.5	384.2	369.6	361.5	353.3	352.4
20°	2331.2	1668.8	673.1	438.5	398.6	372.4	355.2	341.5	333.4	324.3	323.4
22.5°	2432.6	1659.8	580.8	406.8	369.6	344.3	325.2	311.7	303.5	296.2	295.3
25°	2549.5	1652.5	503.7	377.8	342.5	317.1	296.2	283.6	274.5	268.1	267.2
27.5°	2661.8	1641.6	447.5	351.6	316.2	291.7	271.8	257.3	249.2	244.7	244.7
30°	2772.3	1639.0	426.7	326.2	292.6	268.1	248.3	234.6	228.3	226.5	225.6
32.5°	2905.5	1646.2	435.8	317.1	270.9	246.4	227.4	217.4	211.0	211.0	211.0
35°	3047.7	1644.4	449.4	325.2	256.4	224.7	210.2	203.9	197.5	197.5	197.5
37.5°	3226.2	1647.1	460.2	338.9	250.9	206.5	198.4	190.2	186.7	186.7	186.7
40°	3492.6	1736.8	454.8	350.7	249.2	193.9	177.5	174.9	172.1	172.1	172.1
42.5°	3818.7	1931.6	462.1	351.6	248.3	184.8	163.1	168.5	162.2	161.2	160.3
45°	4175.7	2144.5	508.3	332.5	247.3	180.3	155.8	162.2	152.2	152.2	152.2
47.5°	4530.0	2355.6	555.3	305.3	244.7	179.4	149.4	145.9	143.2	144.0	144.0
50°	5018.3	2527.8	573.5	268.1	238.3	177.5	137.8	138.6	136.8	138.6	138.6
52.5°	5550.1	2563.9	551.8	226.5	220.2	172.1	129.6	133.1	132.2	134.1	134.1
55°	5881.7	2525.0	455.7	188.4	192.1	150.4	121.4	128.6	128.6	128.6	128.6
57.5°	6224.1	2359.2	323.4	153.1	159.5	123.2	114.2	124.1	123.2	122.3	122.3
60°	6470.6	2091.0	212.9	126.0	126.8	101.5	106.0	116.8	115.9	111.4	111.4
62.5°	6654.5	1794.8	136.8	106.9	97.0	91.5	97.0	106.0	102.4	92.5	90.6
65°	6633.7	1384.4	105.1	91.5	79.7	79.7	84.3	92.5	81.6	65.2	63.4
67.5°	6246.8	936.7	87.0	77.0	67.0	66.1	69.8	77.0	69.8	55.2	53.4
70°	5555.5	612.4	69.8	59.8	53.4	48.9	56.2	66.1	58.9	44.4	42.5
72.5°	4509.1	373.3	52.6	43.5	38.9	31.7	44.4	54.3	47.2	32.6	30.9
75°	2917.3	190.2	36.3	28.1	20.8	19.1	32.6	40.8	32.6	19.9	17.2
77.5°	1116.2	79.7	19.9	12.7	10.9	9.0	18.1	24.5	13.6	4.5	3.6
80°	214.7	33.5	9.9	6.4	5.4	3.6	2.8	1.8	0.0	0.0	0.0
82.5°	37.1	10.9	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.5	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)