

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: P885266

Luminaire Tested: **NAV-SB6C-722-U-T2-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885266
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-722-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26451 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

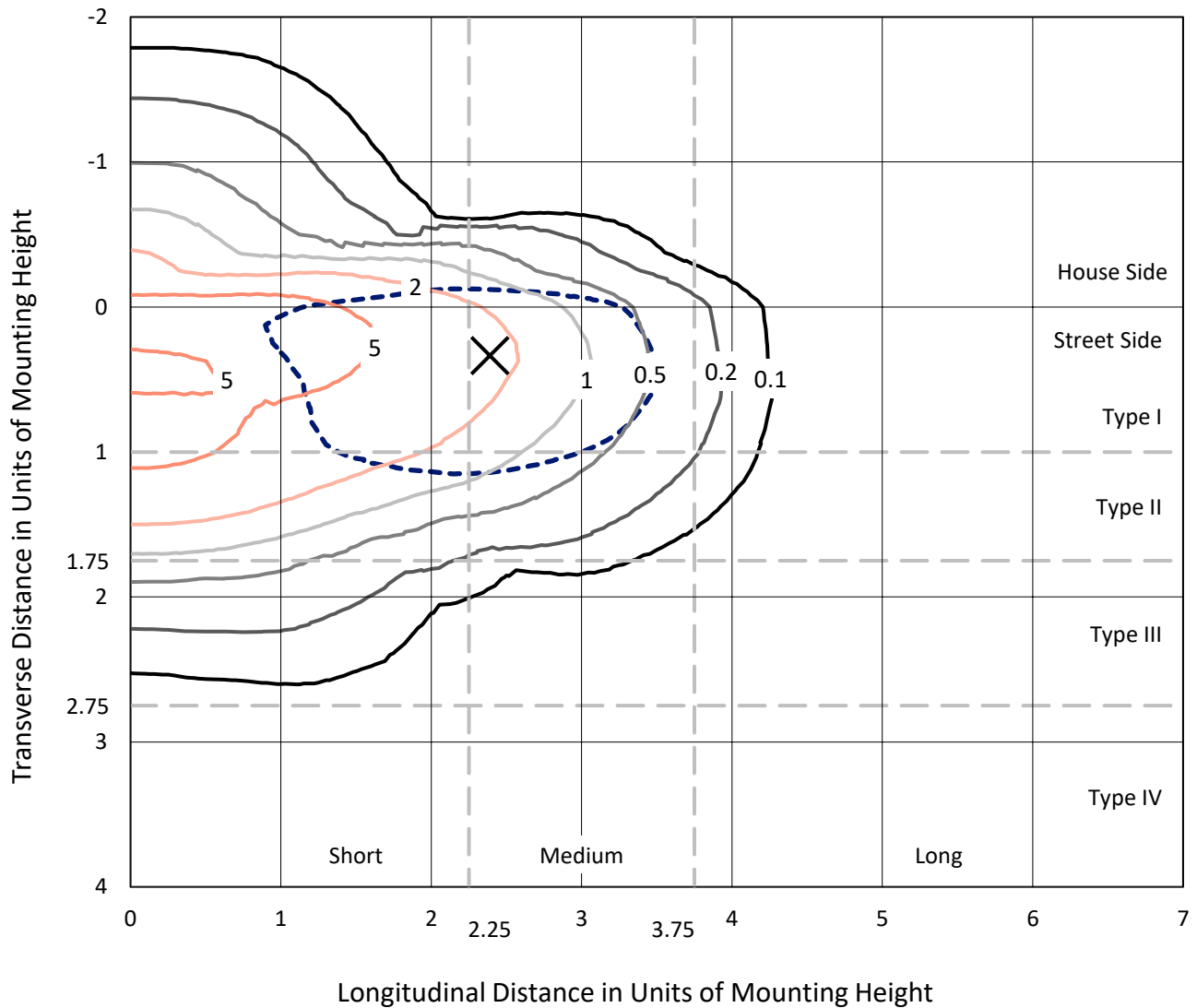
Input Watts (W): 300.9
Input Voltage (V): 120.0
Input Current (Ain): 2.518
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

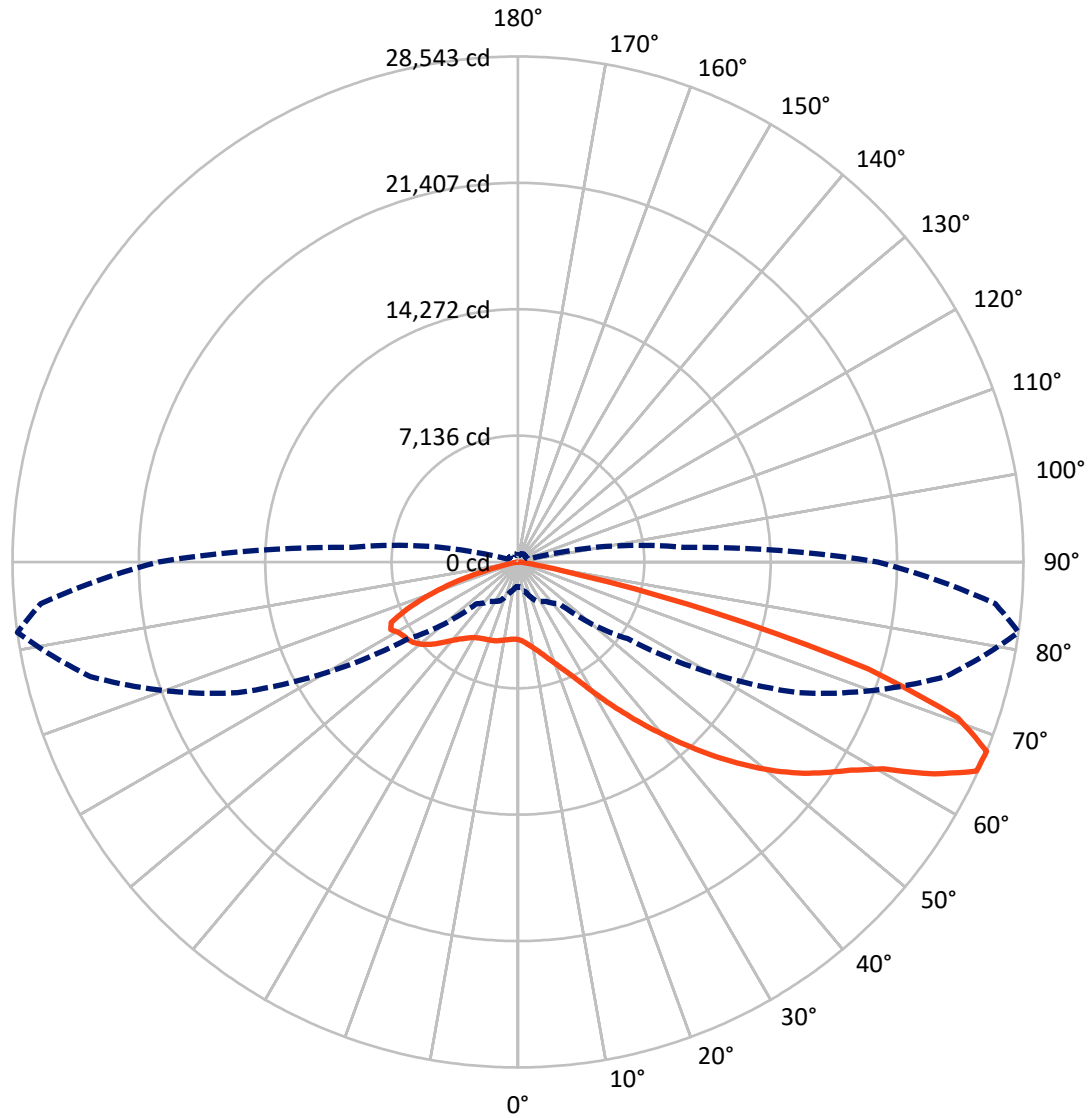
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4791.4	0.0	4791.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	21659.6	0.0	21659.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	26451.0	0.0	26451.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.4	1.5
10°-20°	1014.5	3.8
20°-30°	1624.9	6.1
30°-40°	2873.4	10.9
40°-50°	5034.4	19.0
50°-60°	6714.5	25.4
60°-70°	6250.8	23.6
70°-80°	2399.1	9.1
80°-90°	149.0	0.6
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°	26451.0	100.0
0°-180°	26451.0	100.0

Coefficient of Utilization



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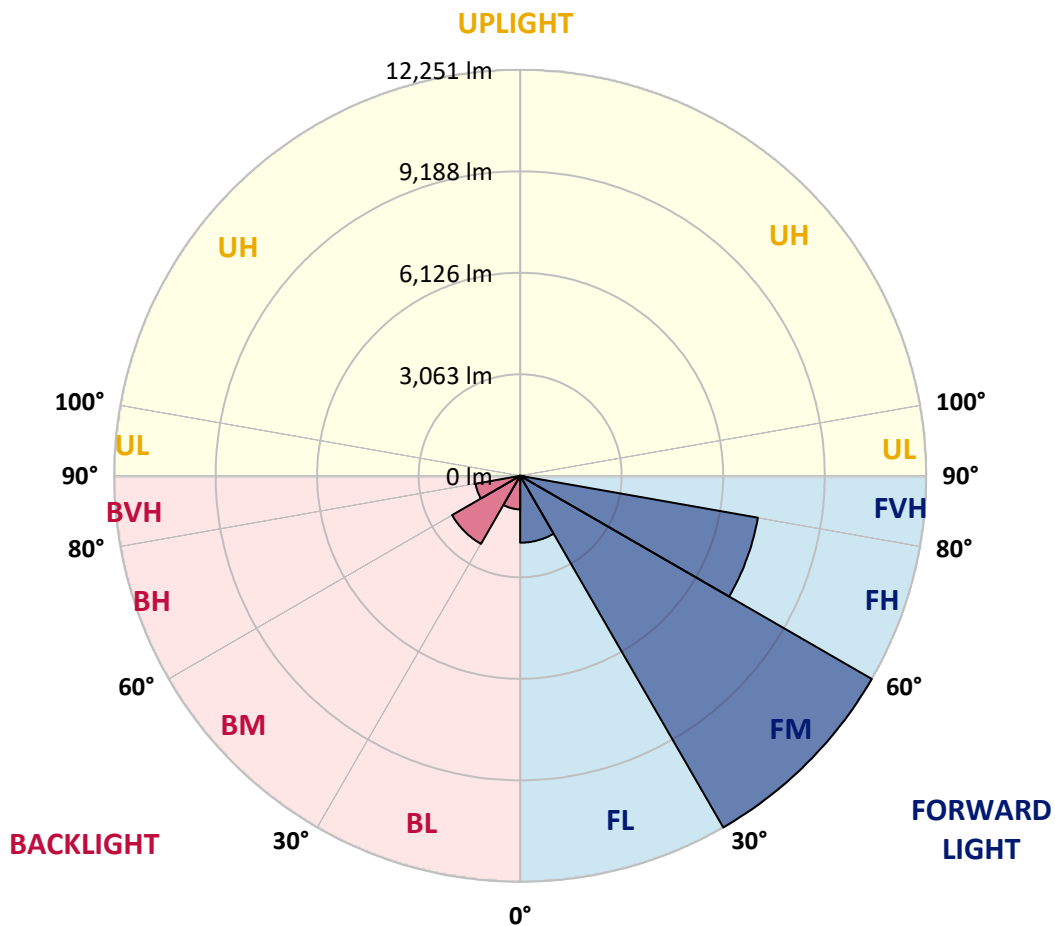
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2017.9	7.6			
FM (30°-60°)	12251.0	46.3			
FH (60°-80°)	7282.4	27.5			G3/7500
FVH (80°-90°)	108.3	0.4			G2/225
BL (0°-30°)	1011.9	3.8	B3/2500		
BM (30°-60°)	2371.2	9.0	B2/2500		
BH (60°-80°)	1367.5	5.2	B3/2500		G3/2500
BVH (80°-90°)	40.7	0.2			G1/100
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0
2.5°	4631.5	4658.2	4642.9	4635.3	4622.0	4602.9	4587.7	4540.1	4490.6	4458.2	4446.8
5°	4724.8	4751.5	4749.6	4757.2	4766.7	4772.4	4768.6	4715.3	4644.8	4589.6	4557.2
7.5°	4644.8	4675.3	4700.1	4738.2	4804.8	4875.3	4909.6	4898.1	4825.8	4749.6	4709.6
10°	4418.2	4450.6	4509.6	4599.1	4740.1	4892.4	5020.0	5079.0	5033.3	4949.5	4894.3
12.5°	4003.1	4035.4	4151.6	4345.9	4582.0	4846.7	5090.5	5248.5	5260.0	5176.2	5111.4
15°	3536.5	3568.9	3692.6	3936.4	4296.3	4721.0	5128.6	5427.6	5528.5	5456.1	5378.0
17.5°	3247.0	3275.6	3368.9	3565.0	3940.2	4469.6	5115.2	5618.0	5848.4	5791.3	5698.0
20°	3159.4	3184.2	3228.0	3365.1	3677.4	4208.7	5027.6	5797.0	6193.1	6160.7	6056.0
22.5°	3252.7	3275.6	3288.9	3349.8	3546.0	4037.3	4917.2	5979.8	6593.0	6596.9	6469.3
25°	3467.9	3490.8	3475.5	3513.6	3599.3	3984.0	4875.3	6195.0	7095.8	7137.7	6993.0
27.5°	3822.1	3824.0	3787.9	3786.0	3799.3	4064.0	4919.1	6425.5	7730.0	7808.1	7629.0
30°	4532.5	4503.9	4364.9	4214.4	4145.9	4304.0	5041.0	6697.8	8478.4	8617.4	8392.7
32.5°	5627.5	5585.6	5330.4	4970.5	4608.7	4690.5	5260.0	7008.2	9293.5	9544.9	9270.6
35°	6815.9	6804.4	6537.8	6002.7	5370.4	5240.9	5616.1	7415.8	10182.9	10582.8	10257.1
37.5°	7920.4	7914.7	7762.4	7132.0	6362.6	6008.4	6187.4	7949.0	11135.1	11714.0	11329.3
40°	8929.8	8946.9	8794.5	8230.8	7455.7	6993.0	6964.4	8607.9	12193.9	12946.1	12489.1
42.5°	9802.0	9821.0	9666.8	9249.7	8535.5	8082.3	7918.5	9415.4	13228.0	14269.7	13728.9
45°	10394.2	10512.3	10489.5	10156.2	9643.9	9173.5	9065.0	10428.5	14406.8	15673.3	15039.1
47.5°	10561.8	10670.4	10841.8	10887.5	10575.2	10112.4	10241.9	11649.2	15599.0	17078.7	16356.9
50°	10148.6	10249.5	10605.6	11079.8	11296.9	11154.1	11386.4	12957.6	16819.7	18480.3	17650.0
52.5°	9333.5	9436.3	9885.8	10636.1	11521.6	11971.1	12534.8	14246.9	18002.3	19807.7	18874.6
55°	8154.7	8263.2	8840.2	9689.6	11093.2	12308.2	13492.7	15534.2	19085.9	21001.8	19979.1
57.5°	6551.2	6631.1	7231.0	8419.4	10015.3	11973.0	14199.2	16939.7	20106.7	22174.9	21074.1
60°	4269.7	4340.1	5037.2	6362.6	8228.9	10853.2	14340.2	18507.0	21462.6	23700.3	22550.1
62.5°	2839.5	2887.1	3300.3	4273.5	5795.1	8703.1	13515.6	19758.2	23450.8	26355.1	25081.0
65°	1948.2	1995.8	2409.1	3087.0	3744.1	5757.0	11144.6	19592.5	25252.4	28463.2	26956.9
67.5°	1390.2	1430.2	1780.6	2420.5	2710.0	3344.1	7554.8	17474.8	24993.4	28543.2	27057.8
70°	996.0	1018.9	1308.3	1885.4	2153.9	2009.1	4201.1	13365.1	21883.5	26357.0	24997.2
72.5°	697.0	704.6	908.4	1435.9	1734.9	1466.4	1999.6	8910.7	16551.2	20687.5	19379.2
75°	472.3	481.8	611.3	1053.1	1392.1	1119.8	1058.8	4778.2	9716.3	11451.2	10264.7
77.5°	289.5	293.3	394.2	719.9	1041.7	853.2	681.8	2024.4	3759.3	3690.7	3146.1
80°	163.8	163.8	251.4	447.5	710.3	550.4	478.0	860.8	1190.3	1045.5	921.7
82.5°	91.4	93.3	182.8	278.0	470.4	325.7	262.8	398.0	514.2	455.2	396.1
85°	38.1	41.9	112.4	131.4	224.7	161.9	106.6	167.6	190.4	169.5	123.8
87.5°	3.8	5.7	34.3	24.8	26.7	32.4	15.2	32.4	26.7	26.7	19.0
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°	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0
2.5°	4410.6	4382.0	4309.7	4225.9	4115.4	4062.1	3989.7	3940.2	3898.3	3902.1	3864.0
5°	4496.3	4423.9	4262.1	4060.2	3808.8	3629.8	3439.4	3308.0	3201.3	3178.5	3127.0
7.5°	4614.4	4500.1	4216.4	3852.6	3427.9	3106.1	2818.5	2633.8	2502.4	2460.5	2418.6
10°	4766.7	4601.0	4157.3	3591.7	2980.4	2570.9	2262.4	2117.7	2028.2	1997.7	1974.9
12.5°	4943.8	4717.2	4079.2	3273.7	2519.5	2125.3	1929.2	1856.8	1828.2	1818.7	1813.0
15°	5166.7	4861.9	3961.2	2896.6	2129.1	1853.0	1769.2	1759.7	1763.5	1759.7	1757.8
17.5°	5431.4	5020.0	3768.8	2508.1	1866.3	1714.0	1683.5	1691.1	1700.6	1698.7	1694.9
20°	5720.8	5176.2	3523.1	2163.4	1687.3	1614.9	1597.8	1605.4	1613.0	1609.2	1607.3
22.5°	6050.3	5343.8	3250.8	1894.9	1567.3	1523.5	1504.5	1506.4	1506.4	1498.8	1495.0
25°	6444.5	5528.5	2965.2	1704.4	1475.9	1441.6	1418.8	1411.2	1399.7	1376.9	1373.1
27.5°	6914.9	5724.6	2690.9	1571.1	1403.5	1371.2	1344.5	1325.5	1296.9	1258.8	1255.0
30°	7444.3	5962.7	2458.6	1487.3	1346.4	1314.0	1283.6	1255.0	1213.1	1165.5	1161.7
32.5°	8067.1	6217.9	2289.1	1432.1	1295.0	1260.7	1224.5	1190.3	1144.5	1096.9	1098.8
35°	8809.8	6526.4	2190.1	1394.0	1255.0	1209.3	1169.3	1131.2	1096.9	1055.0	1051.2
37.5°	9615.3	6854.0	2159.6	1375.0	1228.3	1157.9	1112.2	1085.5	1081.7	1056.9	1055.0
40°	10497.1	7242.5	2182.4	1363.6	1199.8	1108.4	1058.8	1053.1	1062.7	1018.9	1020.8
42.5°	11430.2	7703.3	2220.5	1350.2	1159.8	1058.8	1011.2	1011.2	1003.6	942.7	942.7
45°	12439.6	8234.6	2258.6	1317.8	1112.2	1009.3	973.2	959.8	927.4	868.4	866.5
47.5°	13456.5	8775.5	2287.2	1258.8	1055.0	967.4	935.1	904.6	857.0	803.7	801.8
50°	14422.1	9261.1	2256.7	1171.2	990.3	927.4	893.2	851.3	799.9	763.7	758.0
52.5°	15284.8	9682.0	2127.2	1068.4	921.7	885.5	855.1	811.3	769.4	731.3	727.5
55°	16035.1	10022.9	1898.7	971.2	860.8	849.4	818.9	763.7	706.5	674.2	670.4
57.5°	16755.0	10281.9	1613.0	891.3	805.6	809.4	763.7	714.2	660.8	626.5	622.7
60°	17712.9	10628.5	1323.6	817.0	746.5	758.0	708.4	672.3	605.6	561.8	556.1
62.5°	19244.0	11167.4	1051.2	725.6	678.0	681.8	660.8	617.0	537.0	485.6	481.8
65°	20459.0	10969.4	828.4	626.5	599.9	605.6	605.6	558.0	472.3	413.3	407.5
67.5°	20321.9	9392.5	660.8	529.4	525.6	529.4	542.8	502.8	419.0	371.4	363.7
70°	18720.3	7471.0	529.4	439.9	457.1	447.5	485.6	459.0	377.1	329.5	323.7
72.5°	15275.2	5381.8	403.7	363.7	350.4	365.6	438.0	413.3	314.2	260.9	255.2
75°	8925.9	2871.8	300.9	287.6	253.3	304.7	388.5	352.3	240.0	192.3	186.6
77.5°	2906.1	1001.7	220.9	211.4	188.5	245.7	331.4	297.1	196.2	152.4	146.6
80°	778.9	302.8	150.4	139.0	121.9	182.8	262.8	236.1	140.9	99.0	97.1
82.5°	312.3	127.6	87.6	78.1	66.7	125.7	207.6	190.4	104.7	62.8	62.8
85°	100.9	41.9	32.4	24.8	30.5	78.1	123.8	129.5	74.3	32.4	24.8
87.5°	13.3	5.7	5.7	7.6	5.7	13.3	38.1	36.2	20.9	3.8	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)