

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: P885336

Luminaire Tested: **NAV-SB6C-827-U-T2-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885336
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-827-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 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: 26970 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

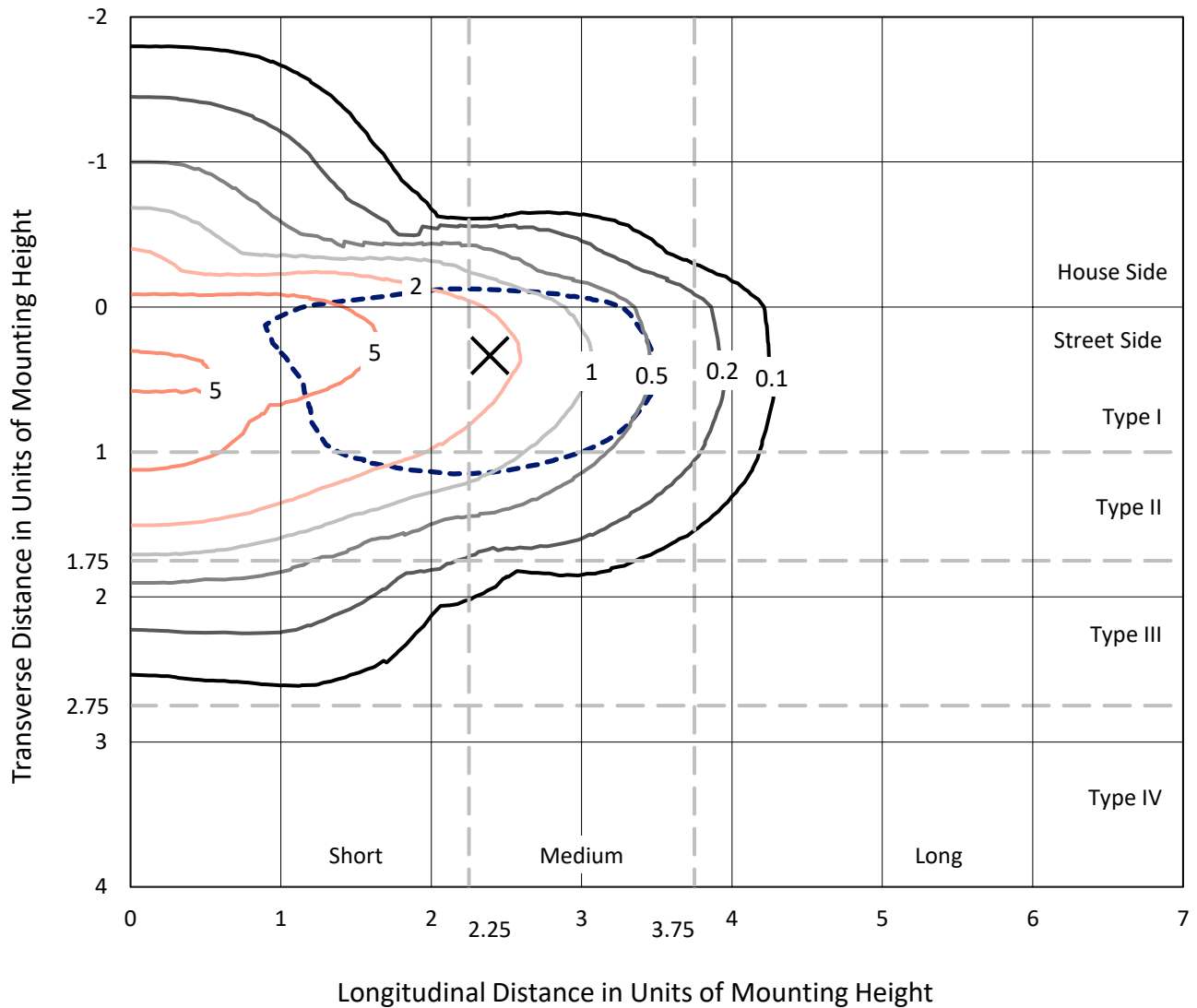
Input Watts (W): 300.9
Input Voltage (V): 120.0
Input Current (Ain): 2.518
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

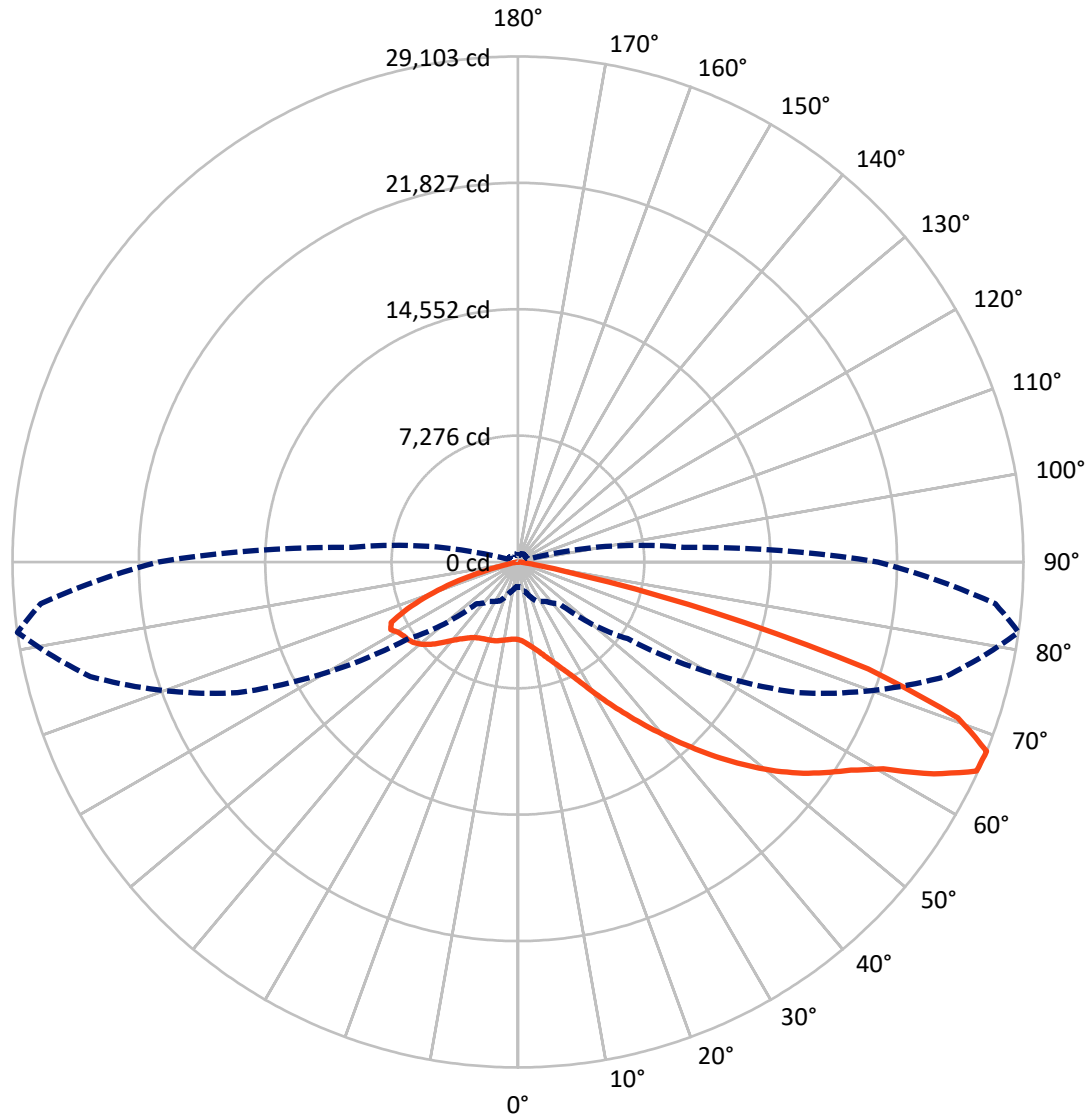
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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	4885.4	0.0	4885.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	22084.6	0.0	22084.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	26970.0	0.0	26970.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.1	1.5
10°-20°	1034.4	3.8
20°-30°	1656.8	6.1
30°-40°	2929.7	10.9
40°-50°	5133.2	19.0
50°-60°	6846.2	25.4
60°-70°	6373.5	23.6
70°-80°	2446.1	9.1
80°-90°	151.9	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°	26970.0	100.0
0°-180°	26970.0	100.0

Coefficient of Utilization



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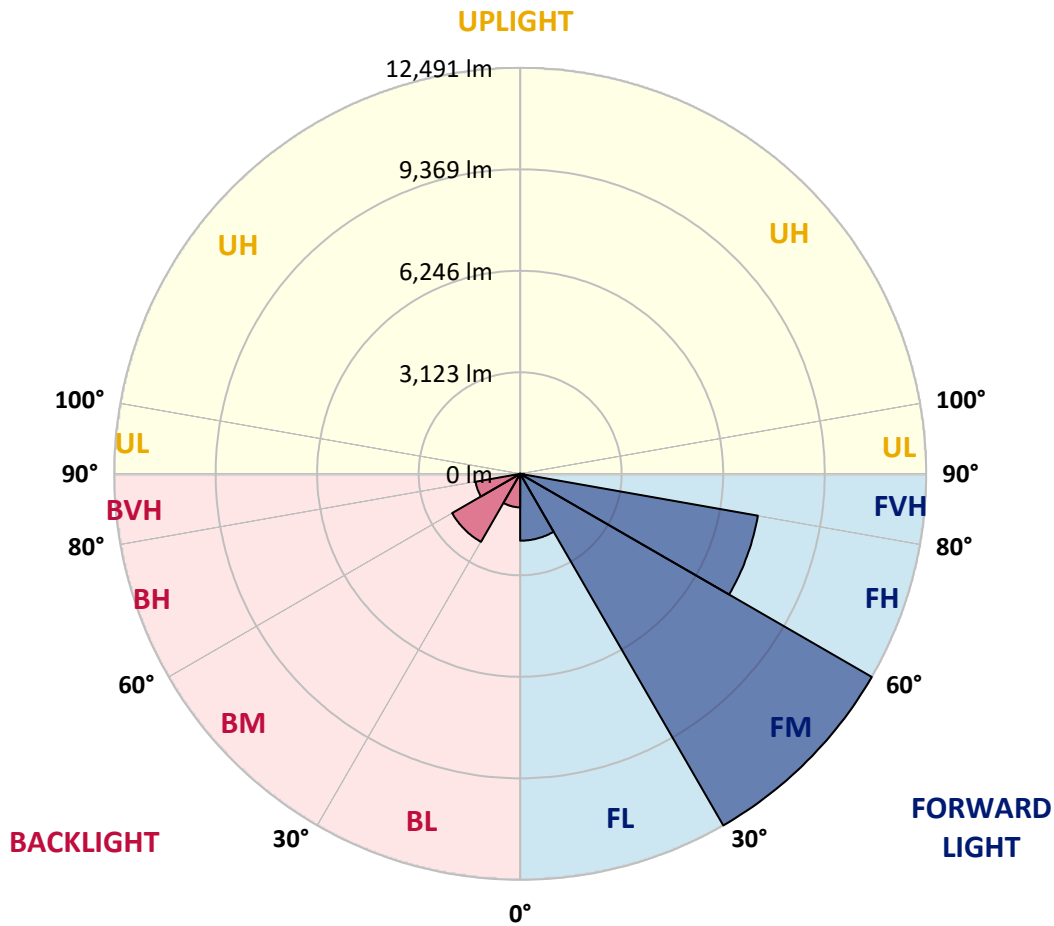
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2057.5	7.6			
FM (30°-60°)	12491.4	46.3			
FH (60°-80°)	7425.3	27.5			G3/7500
FVH (80°-90°)	110.5	0.4			G2/225
BL (0°-30°)	1031.8	3.8	B3/2500		
BM (30°-60°)	2417.7	9.0	B2/2500		
BH (60°-80°)	1394.4	5.2	B3/2500		G3/2500
BVH (80°-90°)	41.5	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°	4468.0	4468.0	4468.0	4468.0	4468.0	4468.0	4468.0	4468.0	4468.0	4468.0	4468.0
2.5°	4722.4	4749.6	4734.0	4726.3	4712.7	4693.3	4677.7	4629.2	4578.7	4545.7	4534.0
5°	4817.5	4844.7	4842.8	4850.5	4860.3	4866.1	4862.2	4807.8	4736.0	4679.7	4646.7
7.5°	4736.0	4767.0	4792.3	4831.1	4899.1	4970.9	5005.9	4994.2	4920.4	4842.8	4802.0
10°	4504.9	4537.9	4598.1	4689.4	4833.1	4988.4	5118.5	5178.7	5132.1	5046.7	4990.4
12.5°	4081.6	4114.6	4233.1	4431.1	4671.9	4941.8	5190.4	5351.5	5363.2	5277.7	5211.7
15°	3605.9	3638.9	3765.1	4013.6	4380.6	4813.7	5229.2	5534.0	5637.0	5563.2	5483.6
17.5°	3310.7	3339.8	3435.0	3635.0	4017.5	4557.3	5215.6	5728.2	5963.2	5904.9	5809.8
20°	3221.4	3246.6	3291.3	3431.1	3749.6	4291.3	5126.3	5910.8	6314.6	6281.6	6174.8
22.5°	3316.5	3339.8	3353.4	3415.6	3615.6	4116.6	5013.7	6097.2	6722.4	6726.3	6596.2
25°	3536.0	3559.3	3543.7	3582.6	3669.9	4062.2	4970.9	6316.6	7235.0	7277.8	7130.2
27.5°	3897.1	3899.1	3862.2	3860.2	3873.8	4143.7	5015.6	6551.5	7881.7	7961.3	7778.7
30°	4621.4	4592.3	4450.5	4297.1	4227.2	4388.4	5139.9	6829.2	8644.8	8786.5	8557.4
32.5°	5737.9	5695.2	5435.0	5068.0	4699.1	4782.6	5363.2	7145.7	9475.8	9732.2	9452.5
35°	6949.6	6937.9	6666.1	6120.5	5475.8	5343.8	5726.3	7561.3	10382.7	10790.4	10458.4
37.5°	8075.8	8070.0	7914.7	7271.9	6487.5	6126.3	6308.8	8105.0	11353.5	11943.8	11551.6
40°	9105.0	9122.4	8967.1	8392.3	7602.0	7130.2	7101.1	8776.8	12433.2	13200.2	12734.1
42.5°	9994.3	10013.7	9856.4	9431.2	8703.0	8240.9	8073.9	9600.1	13487.5	14549.7	13998.2
45°	10598.2	10718.6	10695.3	10355.5	9833.1	9353.5	9242.8	10633.1	14689.5	15980.8	15334.2
47.5°	10769.1	10879.7	11054.5	11101.1	10782.7	10310.8	10442.8	11877.8	15905.1	17413.8	16677.9
50°	10347.7	10450.6	10813.7	11297.2	11518.6	11373.0	11609.9	13211.8	17149.7	18843.0	17996.3
52.5°	9516.6	9621.5	10079.7	10844.8	11747.7	12206.0	12780.7	14526.4	18355.6	20196.4	19244.9
55°	8314.7	8425.3	9013.7	9879.7	11310.8	12549.7	13757.5	15839.0	19460.4	21413.9	20371.1
57.5°	6679.7	6761.2	7372.9	8584.6	10211.8	12207.9	14477.8	17272.1	20501.2	22610.0	21487.6
60°	4353.5	4425.3	5136.0	6487.5	8390.4	11066.2	14621.5	18870.1	21883.8	24165.3	22992.5
62.5°	2895.2	2943.7	3365.1	4357.3	5908.8	8873.9	13780.8	20145.9	23911.0	26872.2	25573.1
65°	1986.4	2035.0	2456.3	3147.6	3817.5	5870.0	11363.2	19976.9	25747.9	29021.7	27485.8
67.5°	1417.5	1458.3	1815.6	2468.0	2763.1	3409.8	7703.0	17817.7	25483.8	29103.3	27588.7
70°	1015.5	1038.8	1334.0	1922.4	2196.1	2048.6	4283.5	13627.4	22312.9	26874.1	25487.7
72.5°	710.7	718.5	926.2	1464.1	1769.0	1495.2	2038.9	9085.5	16875.9	21093.5	19759.5
75°	481.6	491.3	623.3	1073.8	1419.4	1141.8	1079.6	4871.9	9906.9	11675.9	10466.1
77.5°	295.1	299.0	401.9	734.0	1062.1	869.9	695.2	2064.1	3833.1	3763.2	3207.8
80°	167.0	167.0	256.3	456.3	724.3	561.2	487.4	877.7	1213.6	1066.0	939.8
82.5°	93.2	95.1	186.4	283.5	479.6	332.0	268.0	405.8	524.3	464.1	403.9
85°	38.8	42.7	114.6	134.0	229.1	165.1	108.7	170.9	194.2	172.8	126.2
87.5°	3.9	5.8	35.0	25.2	27.2	33.0	15.5	33.0	27.2	27.2	19.4
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°	4468.0	4468.0	4468.0	4468.0	4468.0	4468.0	4468.0	4468.0	4468.0	4468.0	4468.0
2.5°	4497.1	4468.0	4394.2	4308.8	4196.2	4141.8	4068.0	4017.5	3974.8	3978.7	3939.9
5°	4584.5	4510.7	4345.7	4139.9	3883.5	3701.0	3506.8	3372.9	3264.1	3240.8	3188.4
7.5°	4704.9	4588.4	4299.1	3928.2	3495.2	3167.0	2873.8	2685.5	2551.5	2508.8	2466.0
10°	4860.3	4691.3	4238.9	3662.2	3038.9	2621.4	2306.8	2159.2	2068.0	2036.9	2013.6
12.5°	5040.8	4809.8	4159.3	3337.9	2569.0	2167.0	1967.0	1893.2	1864.1	1854.4	1848.6
15°	5268.0	4957.3	4038.9	2953.4	2170.9	1889.3	1803.9	1794.2	1798.1	1794.2	1792.3
17.5°	5537.9	5118.5	3842.8	2557.3	1902.9	1747.6	1716.5	1724.3	1734.0	1732.1	1728.2
20°	5833.1	5277.7	3592.3	2205.9	1720.4	1646.6	1629.1	1636.9	1644.7	1640.8	1638.9
22.5°	6169.0	5448.6	3314.6	1932.1	1598.1	1553.4	1534.0	1535.9	1535.9	1528.2	1524.3
25°	6571.0	5637.0	3023.3	1737.9	1504.9	1469.9	1446.6	1438.9	1427.2	1403.9	1400.0
27.5°	7050.6	5837.0	2743.7	1602.0	1431.1	1398.1	1370.9	1351.5	1322.3	1283.5	1279.6
30°	7590.4	6079.7	2506.8	1516.5	1372.8	1339.8	1308.8	1279.6	1236.9	1188.4	1184.5
32.5°	8225.3	6339.9	2334.0	1460.2	1320.4	1285.5	1248.6	1213.6	1167.0	1118.5	1120.4
35°	8982.6	6654.5	2233.0	1421.4	1279.6	1233.0	1192.2	1153.4	1118.5	1075.7	1071.9
37.5°	9804.0	6988.4	2202.0	1402.0	1252.4	1180.6	1134.0	1106.8	1102.9	1077.7	1075.7
40°	10703.0	7384.6	2225.3	1390.3	1223.3	1130.1	1079.6	1073.8	1083.5	1038.8	1040.8
42.5°	11654.5	7854.5	2264.1	1376.7	1182.5	1079.6	1031.1	1031.1	1023.3	961.2	961.2
45°	12683.7	8396.2	2302.9	1343.7	1134.0	1029.1	992.2	978.7	945.6	885.4	883.5
47.5°	13720.6	8947.7	2332.1	1283.5	1075.7	986.4	953.4	922.3	873.8	819.4	817.5
50°	14705.0	9442.8	2301.0	1194.2	1009.7	945.6	910.7	868.0	815.5	778.7	772.8
52.5°	15584.7	9872.0	2169.0	1089.3	939.8	902.9	871.9	827.2	784.5	745.6	741.8
55°	16349.7	10219.5	1935.9	990.3	877.7	866.0	835.0	778.7	720.4	687.4	683.5
57.5°	17083.7	10483.6	1644.7	908.7	821.4	825.3	778.7	728.2	673.8	638.8	635.0
60°	18060.4	10837.0	1349.5	833.0	761.2	772.8	722.3	685.4	617.5	572.8	567.0
62.5°	19621.6	11386.5	1071.9	739.8	691.3	695.2	673.8	629.1	547.6	495.2	491.3
65°	20860.5	11184.6	844.7	638.8	611.7	617.5	617.5	568.9	481.6	421.4	415.5
67.5°	20720.6	9576.8	673.8	539.8	535.9	539.8	553.4	512.6	427.2	378.6	370.9
70°	19087.6	7617.6	539.8	448.5	466.0	456.3	495.2	468.0	384.5	335.9	330.1
72.5°	15574.9	5487.4	411.7	370.9	357.3	372.8	446.6	421.4	320.4	266.0	260.2
75°	9101.1	2928.2	306.8	293.2	258.3	310.7	396.1	359.2	244.7	196.1	190.3
77.5°	2963.1	1021.4	225.2	215.5	192.2	250.5	337.9	302.9	200.0	155.3	149.5
80°	794.2	308.7	153.4	141.7	124.3	186.4	268.0	240.8	143.7	101.0	99.0
82.5°	318.5	130.1	89.3	79.6	68.0	128.2	211.7	194.2	106.8	64.1	64.1
85°	102.9	42.7	33.0	25.2	31.1	79.6	126.2	132.0	75.7	33.0	25.2
87.5°	13.6	5.8	5.8	7.8	5.8	13.6	38.8	36.9	21.4	3.9	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)