

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: P882907

Luminaire Tested: **NAV-SB3A-730-U-T2**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882907
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3A-730-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13123 lumens
Efficiency: N/A
Efficacy: 154.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

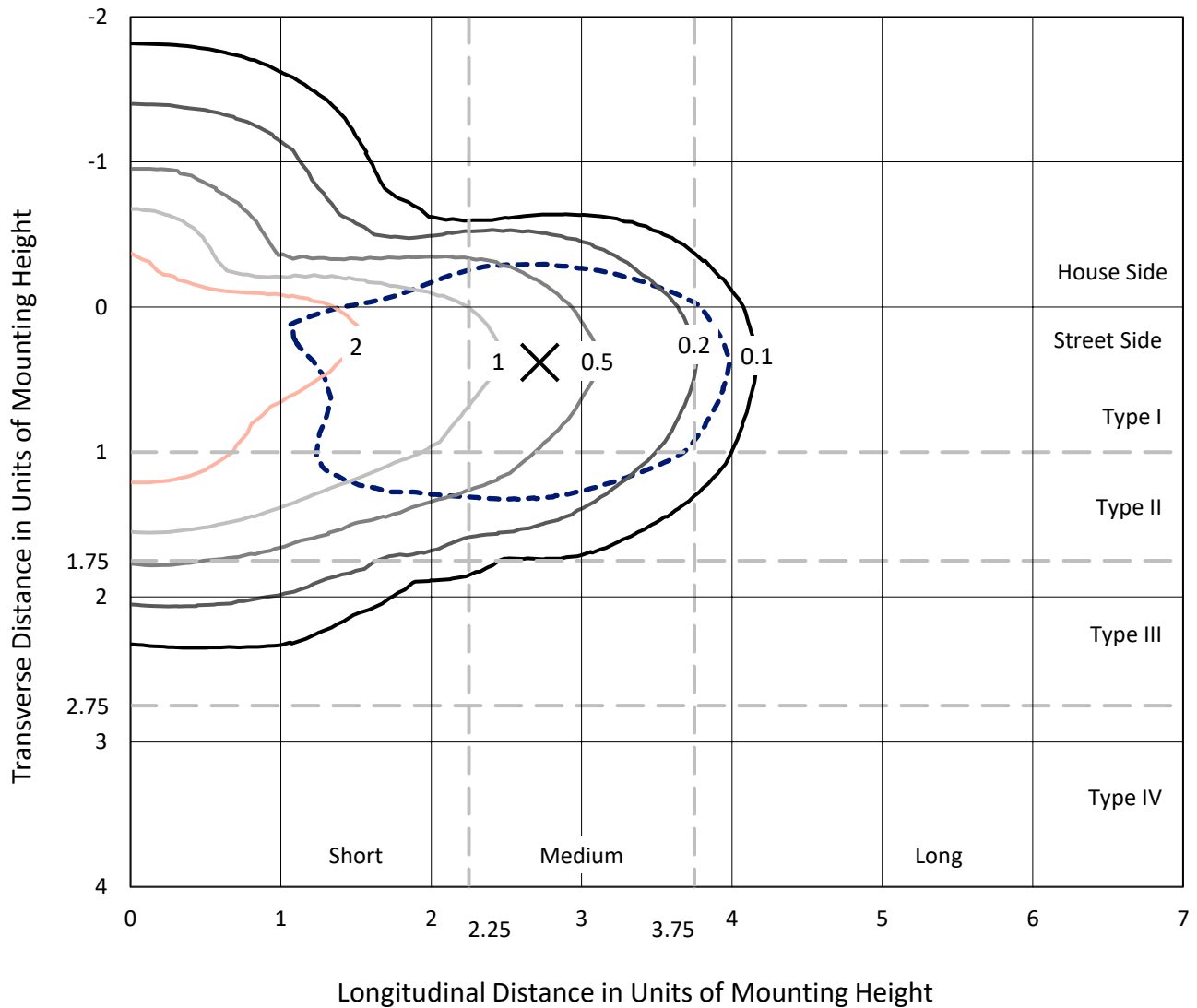
Input Watts (W): 84.7
Input Voltage (V): 120.0
Input Current (Ain): 0.717
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

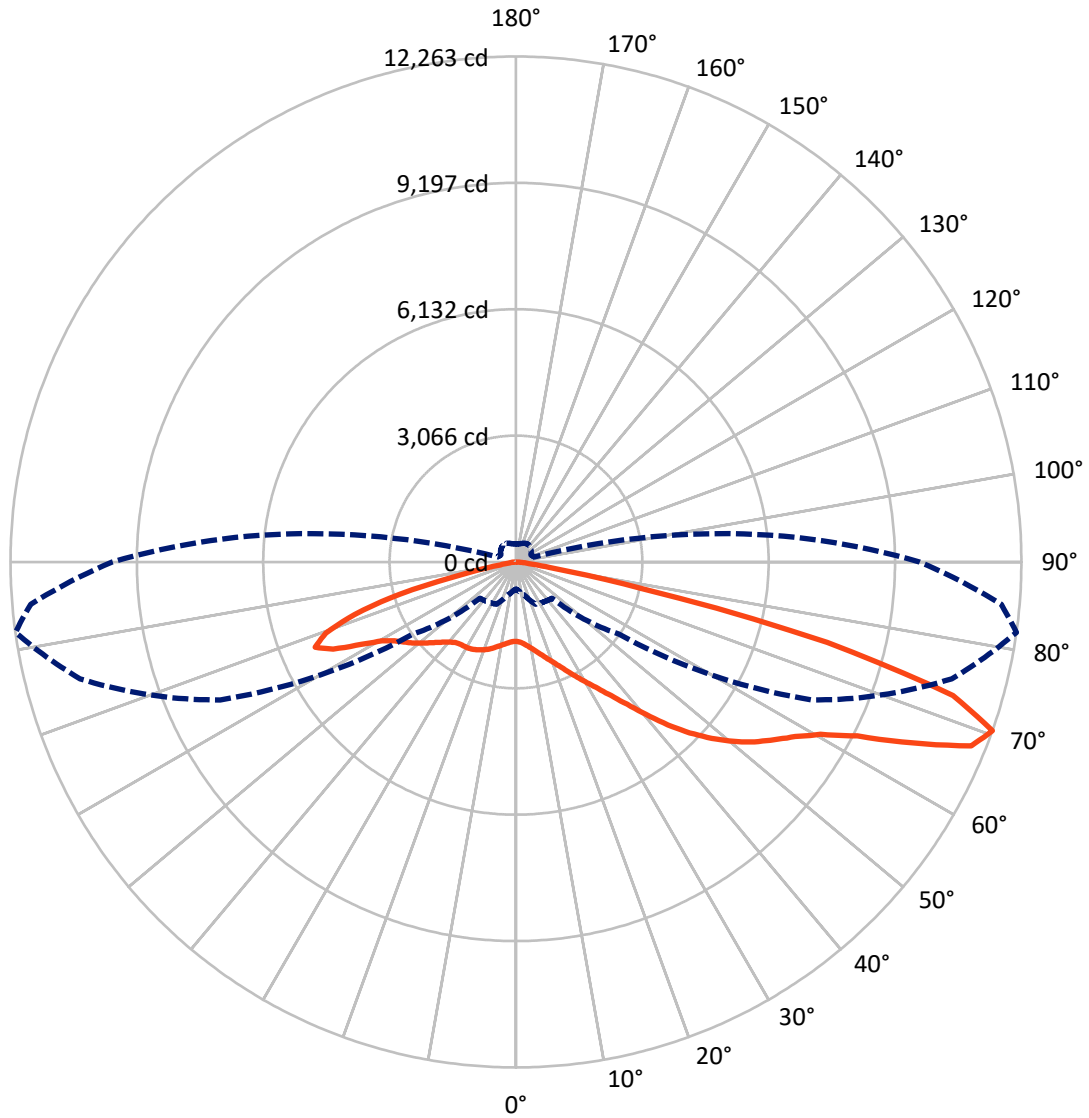
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3235.1	0.0	3235.1
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	9887.9	0.0	9887.9
	% Fixture	75.3	0.0	75.3
Total	Lumens	13123.0	0.0	13123.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.7	1.4
10°-20°	521.9	4.0
20°-30°	873.1	6.7
30°-40°	1364.0	10.4
40°-50°	2172.4	16.6
50°-60°	3023.1	23.0
60°-70°	3162.3	24.1
70°-80°	1652.8	12.6
80°-90°	171.6	1.3
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°	13123.0	100.0
0°-180°	13123.0	100.0

Coefficient of Utilization

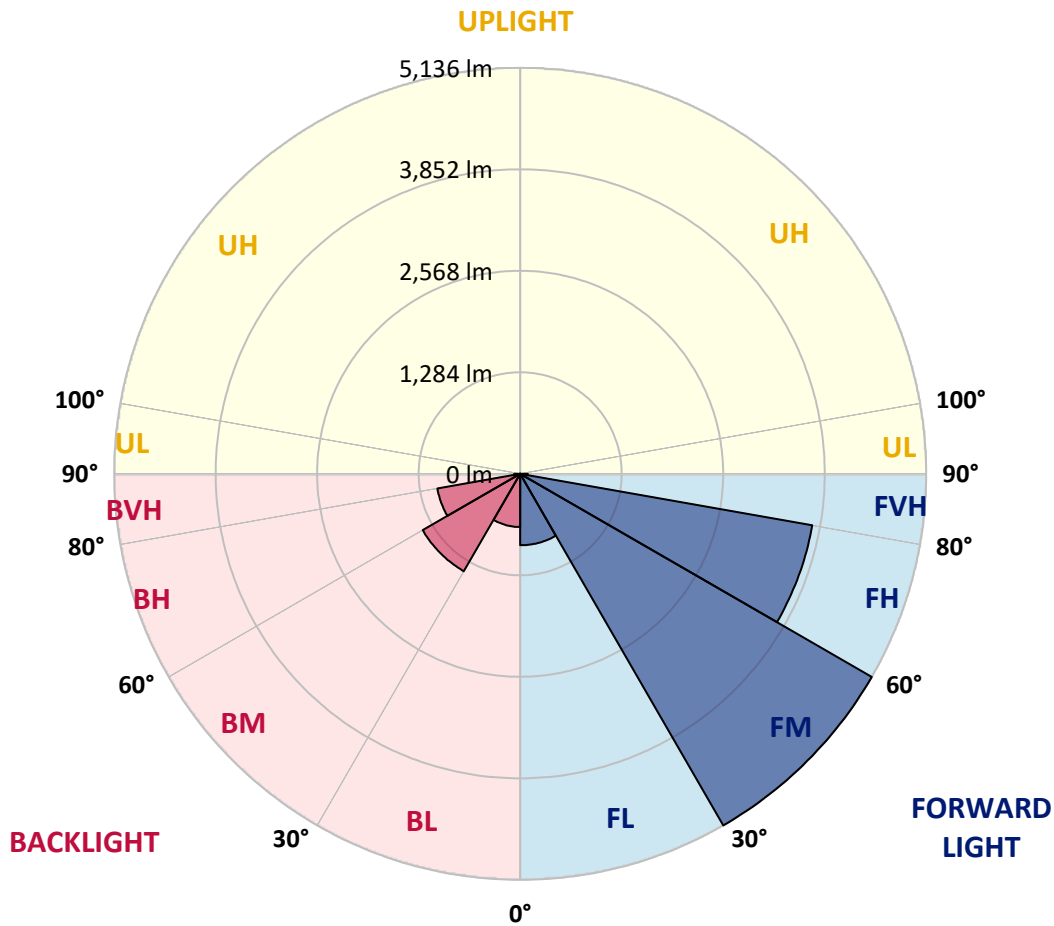


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	903.7	6.9			
FM (30°-60°)	5136.2	39.1			
FH (60°-80°)	3751.9	28.6			G2/5000
FVH (80°-90°)	96.1	0.7			G1/100
BL (0°-30°)	673.0	5.1	B2/1000		
BM (30°-60°)	1423.3	10.8	B2/2500		
BH (60°-80°)	1063.2	8.1	B3/2500		G3/2500
BVH (80°-90°)	75.5	0.6			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°	1924.0	1924.0	1924.0	1924.0	1924.0	1924.0	1924.0	1924.0	1924.0	1924.0	1924.0
2.5°	1970.0	1981.1	1977.6	1974.1	1974.1	1969.3	1968.6	1961.6	1956.0	1947.0	1944.9
5°	1995.0	2006.9	2005.5	2008.3	2017.3	2019.4	2021.5	2017.3	2006.2	1995.0	1990.1
7.5°	1972.7	1986.0	1990.1	2006.9	2034.7	2059.8	2078.6	2086.2	2075.8	2059.8	2052.1
10°	1897.5	1912.2	1926.8	1966.5	2015.9	2075.1	2125.2	2155.2	2153.1	2137.8	2124.5
12.5°	1745.0	1760.4	1791.7	1869.0	1959.5	2064.0	2157.3	2219.9	2241.5	2230.4	2207.4
15°	1623.2	1636.4	1660.1	1739.5	1857.1	2015.9	2169.1	2291.0	2346.0	2339.7	2311.9
17.5°	1619.7	1625.3	1639.9	1677.5	1768.0	1940.7	2156.6	2360.6	2465.8	2465.1	2430.2
20°	1681.0	1683.1	1691.4	1699.1	1750.6	1883.6	2124.5	2418.4	2600.1	2600.1	2562.5
22.5°	1765.9	1764.5	1772.9	1765.9	1791.0	1878.7	2104.3	2469.2	2749.9	2761.0	2713.6
25°	1893.4	1886.4	1884.3	1868.3	1873.2	1924.0	2126.6	2527.0	2927.4	2950.4	2891.2
27.5°	2063.3	2052.1	2044.5	2007.6	1995.0	2017.3	2194.9	2596.7	3125.2	3164.9	3089.7
30°	2284.7	2264.5	2253.4	2189.3	2144.0	2147.5	2297.9	2689.3	3332.0	3396.1	3300.7
32.5°	2586.9	2555.6	2525.6	2420.5	2337.6	2310.5	2430.9	2817.4	3556.2	3658.6	3536.0
35°	2925.3	2900.3	2868.2	2706.0	2578.6	2515.9	2610.6	2996.4	3818.7	3981.0	3821.5
37.5°	3251.2	3229.6	3245.0	3026.3	2862.0	2770.7	2846.0	3236.6	4142.5	4382.1	4179.5
40°	3588.3	3571.5	3573.6	3364.7	3173.2	3070.9	3131.5	3538.1	4513.7	4859.1	4609.8
42.5°	3954.5	3942.0	3900.2	3715.0	3499.8	3404.4	3460.1	3886.3	4912.0	5402.2	5081.9
45°	4364.7	4357.0	4318.0	4105.6	3859.1	3751.9	3827.1	4270.7	5312.4	5913.3	5556.1
47.5°	4719.1	4725.4	4720.5	4541.5	4286.0	4128.6	4218.4	4671.8	5684.9	6393.8	6010.8
50°	4889.7	4922.4	4970.5	4914.8	4756.0	4595.9	4613.3	5058.9	6040.1	6844.4	6446.7
52.5°	4800.6	4862.6	4993.5	5082.6	5143.9	5110.5	5063.8	5443.3	6374.3	7251.0	6859.0
55°	4468.4	4555.5	4772.7	4987.9	5300.6	5543.6	5604.9	5869.5	6700.2	7608.9	7248.9
57.5°	3863.3	4004.7	4199.6	4634.9	5161.3	5753.2	6235.8	6460.7	7045.6	7991.2	7657.0
60°	2825.8	3015.2	3257.5	3905.1	4673.9	5641.1	6772.6	7368.7	7536.5	8486.3	8188.3
62.5°	1808.4	1925.4	2148.2	2758.2	3641.9	5066.6	6937.0	8503.7	8368.7	9298.3	8984.9
65°	1238.1	1313.3	1517.3	1859.9	2354.3	3771.4	6496.9	9354.7	9690.3	10585.1	10347.0
67.5°	899.7	956.8	1130.9	1431.0	1534.0	2231.8	5041.5	9315.7	10975.1	11910.9	11540.5
70°	656.0	696.3	842.6	1130.9	1180.3	1241.6	3054.2	7918.8	10947.2	12263.3	11819.7
72.5°	486.0	513.9	612.1	877.4	955.4	838.4	1511.8	5755.3	9406.9	11092.0	10736.2
75°	351.7	372.5	445.0	671.3	764.6	638.5	754.1	3363.3	6561.6	7802.5	7865.2
77.5°	268.8	284.8	332.2	491.6	612.1	479.1	467.9	1547.3	3111.3	3126.6	3302.1
80°	215.9	226.3	252.1	346.1	469.3	358.6	305.0	624.6	983.2	832.1	873.2
82.5°	158.8	176.2	213.1	243.0	335.6	247.2	185.9	315.4	373.9	321.7	324.5
85°	90.5	102.4	128.8	174.1	214.5	151.1	106.5	140.0	174.1	142.8	127.4
87.5°	32.0	41.8	45.3	68.2	93.3	62.7	41.1	40.4	57.1	42.5	35.5
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°	1924.0	1924.0	1924.0	1924.0	1924.0	1924.0	1924.0	1924.0	1924.0	1924.0	1924.0
2.5°	1937.9	1934.4	1920.5	1901.7	1882.2	1863.4	1857.1	1843.9	1834.9	1830.0	1835.6
5°	1976.9	1965.8	1933.0	1891.3	1847.4	1800.0	1766.6	1736.0	1713.7	1692.8	1701.2
7.5°	2032.6	2013.1	1956.7	1883.6	1805.6	1726.9	1668.4	1623.9	1593.9	1574.4	1578.6
10°	2097.4	2067.4	1981.1	1871.8	1751.3	1638.5	1569.6	1531.3	1512.5	1502.0	1504.8
12.5°	2171.9	2129.4	2006.2	1844.6	1668.4	1539.6	1492.3	1481.1	1481.8	1482.5	1483.9
15°	2263.8	2204.6	2026.4	1785.4	1560.5	1463.7	1455.4	1473.5	1492.3	1501.3	1500.6
17.5°	2367.6	2284.0	2029.8	1687.9	1454.7	1415.0	1441.4	1480.4	1509.0	1521.5	1524.3
20°	2479.0	2364.8	2004.8	1550.1	1367.6	1375.3	1422.6	1472.8	1504.1	1520.1	1524.3
22.5°	2606.4	2451.1	1944.9	1405.2	1296.6	1332.1	1387.8	1436.6	1469.3	1485.3	1489.5
25°	2751.9	2547.9	1850.9	1283.4	1235.3	1283.4	1339.1	1379.5	1405.9	1420.5	1424.7
27.5°	2913.5	2648.9	1725.5	1186.6	1181.7	1233.2	1279.2	1310.5	1324.4	1335.6	1339.8
30°	3075.7	2740.8	1573.7	1113.5	1135.0	1183.8	1216.5	1230.4	1234.6	1236.7	1241.6
32.5°	3251.2	2820.2	1414.3	1052.9	1090.5	1135.7	1155.2	1161.5	1142.0	1128.8	1133.0
35°	3463.6	2905.1	1258.3	1004.8	1046.6	1085.6	1091.9	1086.3	1063.3	1036.2	1037.6
37.5°	3726.1	3011.0	1133.6	970.7	1005.5	1031.3	1023.6	1022.2	1024.3	992.3	994.4
40°	4047.8	3148.9	1042.4	944.2	972.1	977.7	956.1	967.9	978.4	929.6	931.0
42.5°	4405.1	3315.3	984.6	926.1	944.2	931.0	897.6	910.8	909.4	845.4	844.7
45°	4769.3	3496.3	964.4	912.9	918.5	892.0	855.1	858.6	829.3	771.5	773.6
47.5°	5131.4	3690.6	977.0	901.8	886.4	856.5	828.0	812.6	769.5	726.3	726.3
50°	5486.5	3894.6	1022.9	879.5	842.6	825.2	804.3	777.1	731.2	694.3	691.5
52.5°	5815.9	4100.1	1074.5	842.6	787.6	798.0	784.8	753.4	708.2	670.6	671.3
55°	6127.8	4305.5	1094.7	791.7	736.0	774.3	766.7	708.9	654.6	623.9	621.1
57.5°	6467.6	4552.7	1072.4	727.0	694.3	747.2	717.9	653.9	622.5	599.6	597.5
60°	6938.4	4940.6	1024.3	646.9	654.6	706.8	656.7	630.2	596.1	570.3	568.9
62.5°	7720.4	5664.1	947.0	567.5	607.9	646.9	627.4	600.9	566.1	541.1	541.1
65°	8876.3	6669.6	801.5	505.5	555.7	588.4	596.1	569.6	533.4	506.9	508.3
67.5°	9851.2	7300.5	606.5	454.0	502.1	541.1	562.6	536.9	498.6	472.8	473.5
70°	9797.5	6842.3	463.1	403.2	454.7	494.4	522.3	502.1	461.0	436.6	438.7
72.5°	8702.2	5723.9	374.6	351.7	406.7	445.7	479.1	463.8	422.0	398.3	398.3
75°	6393.1	4063.2	299.4	299.4	346.8	394.8	431.7	422.0	383.7	367.0	362.1
77.5°	2694.8	1704.6	234.7	248.6	288.3	339.1	385.1	388.6	355.1	376.0	341.2
80°	716.5	470.0	179.0	195.7	226.3	279.9	334.9	333.5	297.3	277.8	258.3
82.5°	273.0	185.2	127.4	137.9	163.6	214.5	265.3	273.7	237.5	205.4	205.4
85°	105.1	79.4	78.7	82.9	95.4	142.1	200.5	207.5	179.0	151.8	156.7
87.5°	27.2	23.7	29.2	27.9	43.9	75.9	114.9	119.1	109.3	63.4	90.5
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)