

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: P882567

Luminaire Tested: **NAV-SB2C-730-U-T2**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882567
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-SB2C-730-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14887 lumens
Efficiency: N/A
Efficacy: 147.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

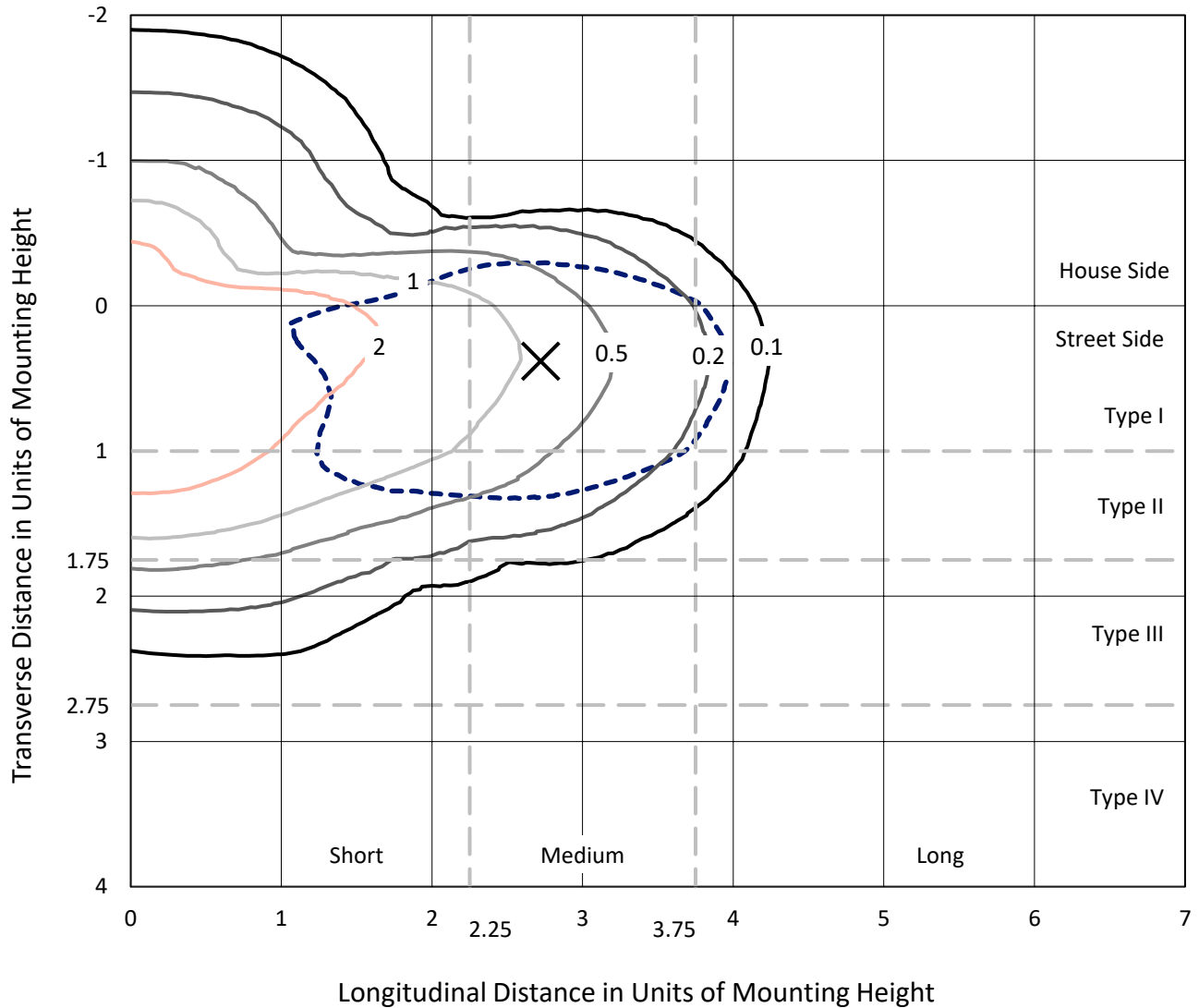
Input Watts (W): 100.9
Input Voltage (V): 120.0
Input Current (Ain): 0.857
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.472
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

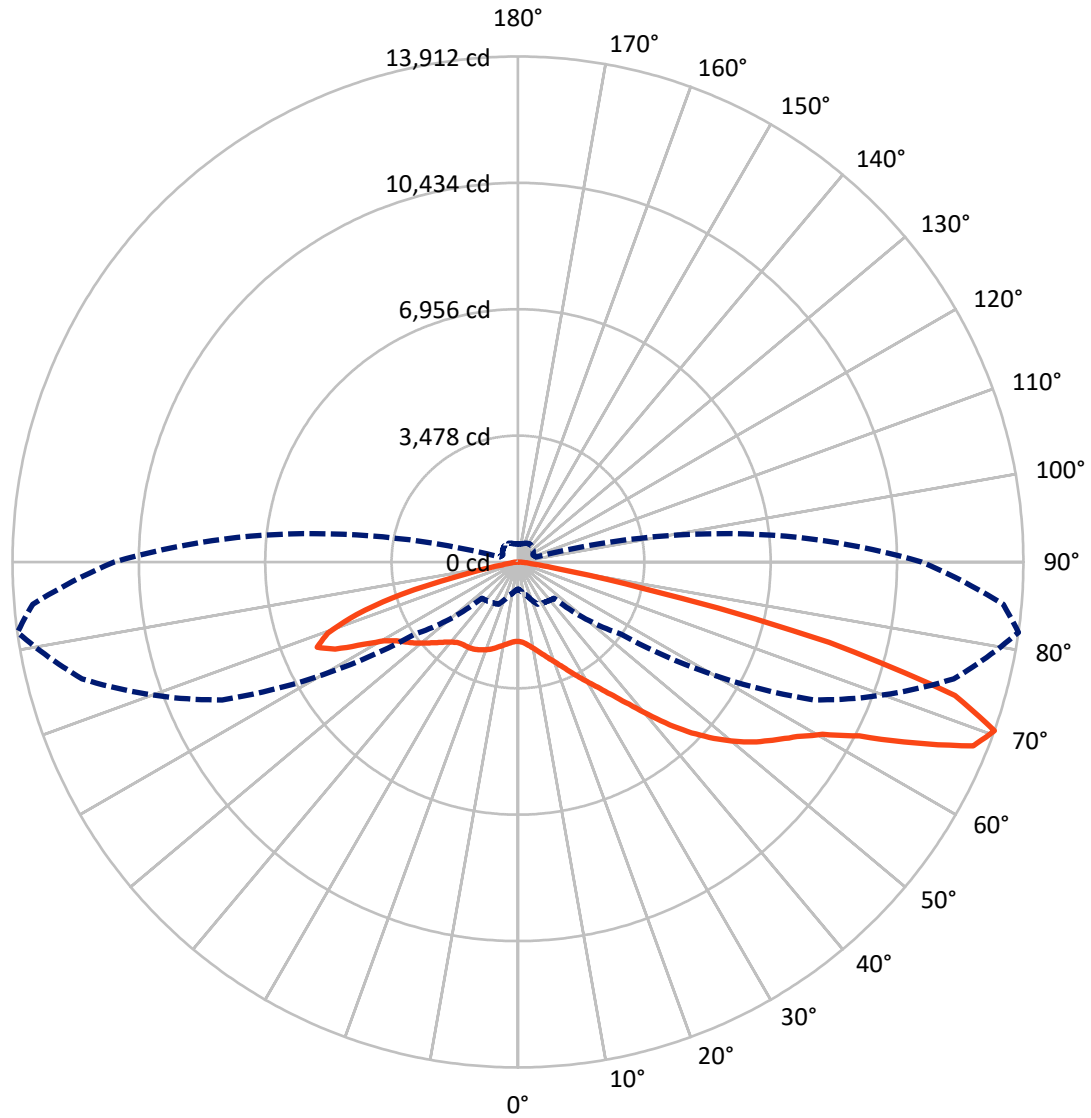
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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	3670.0	0.0	3670.0
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	11217.0	0.0	11217.0
	% Fixture	75.3	0.0	75.3
Total	Lumens	14887.0	0.0	14887.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.1	1.4
10°-20°	592.1	4.0
20°-30°	990.5	6.7
30°-40°	1547.4	10.4
40°-50°	2464.4	16.6
50°-60°	3429.5	23.0
60°-70°	3587.4	24.1
70°-80°	1875.0	12.6
80°-90°	194.7	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°	14887.0	100.0
0°-180°	14887.0	100.0



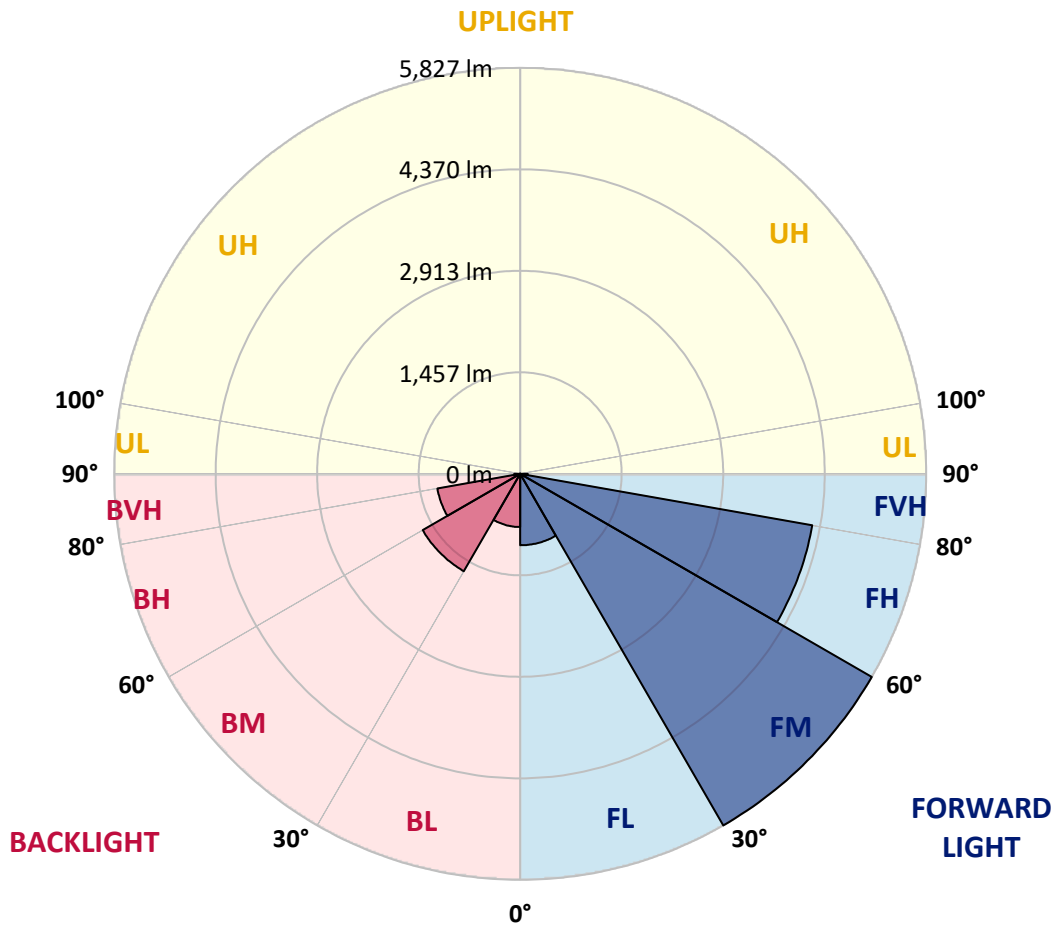
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1025.1	6.9			
FM (30°-60°)	5826.6	39.1			
FH (60°-80°)	4256.2	28.6			G2/5000
FVH (80°-90°)	109.0	0.7			G2/225
BL (0°-30°)	763.5	5.1	B2/1000		
BM (30°-60°)	1614.7	10.8	B2/2500		
BH (60°-80°)	1206.2	8.1	B3/2500		G3/2500
BVH (80°-90°)	85.7	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°	2182.6	2182.6	2182.6	2182.6	2182.6	2182.6	2182.6	2182.6	2182.6	2182.6	2182.6
2.5°	2234.8	2247.4	2243.4	2239.5	2239.5	2234.0	2233.2	2225.3	2219.0	2208.7	2206.3
5°	2263.2	2276.6	2275.0	2278.2	2288.5	2290.8	2293.2	2288.5	2275.8	2263.2	2257.7
7.5°	2237.9	2252.9	2257.7	2276.6	2308.2	2336.7	2358.0	2366.7	2354.8	2336.7	2328.0
10°	2152.6	2169.2	2185.8	2230.8	2286.9	2354.0	2410.9	2444.9	2442.5	2425.1	2410.1
12.5°	1979.6	1997.0	2032.5	2120.2	2222.9	2341.4	2447.3	2518.3	2542.8	2530.2	2504.1
15°	1841.4	1856.4	1883.2	1973.3	2106.8	2286.9	2460.7	2598.9	2661.3	2654.2	2622.6
17.5°	1837.4	1843.7	1860.3	1903.0	2005.7	2201.6	2446.5	2677.9	2797.2	2796.4	2756.9
20°	1906.9	1909.3	1918.8	1927.5	1985.9	2136.8	2410.1	2743.5	2949.7	2949.7	2907.0
22.5°	2003.3	2001.7	2011.2	2003.3	2031.7	2131.3	2387.2	2801.1	3119.5	3132.1	3078.4
25°	2147.9	2140.0	2137.6	2119.4	2125.0	2182.6	2412.5	2866.7	3320.9	3347.0	3279.9
27.5°	2340.6	2328.0	2319.3	2277.4	2263.2	2288.5	2489.9	2945.7	3545.3	3590.3	3505.0
30°	2591.8	2568.9	2556.3	2483.6	2432.2	2436.2	2606.8	3050.8	3779.9	3852.6	3744.3
32.5°	2934.6	2899.1	2865.1	2745.9	2651.8	2621.0	2757.7	3196.1	4034.3	4150.4	4011.3
35°	3318.6	3290.1	3253.8	3069.7	2925.2	2854.1	2961.5	3399.1	4332.1	4516.1	4335.2
37.5°	3688.3	3663.8	3681.1	3433.1	3246.7	3143.2	3228.5	3671.7	4699.4	4971.1	4741.3
40°	4070.6	4051.6	4054.0	3817.0	3599.8	3483.7	3552.4	4013.7	5120.4	5512.2	5229.4
42.5°	4486.1	4471.9	4424.5	4214.4	3970.3	3862.0	3925.2	4408.7	5572.3	6128.4	5765.0
45°	4951.4	4942.7	4898.5	4657.5	4377.9	4256.2	4341.5	4844.7	6026.5	6708.2	6303.0
47.5°	5353.5	5360.6	5355.0	5152.0	4862.1	4683.6	4785.5	5299.7	6449.1	7253.3	6818.8
50°	5547.0	5584.1	5638.6	5575.4	5395.3	5213.6	5233.4	5739.0	6852.0	7764.4	7313.3
52.5°	5445.9	5516.2	5664.7	5765.8	5835.3	5797.4	5744.5	6175.0	7231.2	8225.7	7781.0
55°	5069.1	5167.8	5414.3	5658.4	6013.1	6288.8	6358.3	6658.5	7600.9	8631.7	8223.3
57.5°	4382.6	4543.0	4764.2	5257.9	5855.1	6526.5	7074.0	7329.1	7992.7	9065.4	8686.2
60°	3205.6	3420.5	3695.4	4430.0	5302.1	6399.4	7683.0	8359.2	8549.6	9627.1	9289.0
62.5°	2051.5	2184.2	2437.0	3129.0	4131.4	5747.6	7869.4	9646.8	9493.6	10548.1	10192.7
65°	1404.5	1489.8	1721.3	2109.9	2670.8	4278.3	7370.2	10612.1	10992.9	12008.0	11737.8
67.5°	1020.6	1085.4	1282.9	1623.3	1740.3	2531.8	5719.2	10567.9	12450.3	13512.0	13091.8
70°	744.1	789.9	955.8	1282.9	1339.0	1408.5	3464.7	8983.3	12418.7	13911.7	13408.5
72.5°	551.4	583.0	694.4	995.3	1083.8	951.1	1715.0	6528.9	10671.4	12583.0	12179.4
75°	398.9	422.6	504.8	761.5	867.4	724.4	855.5	3815.4	7443.7	8851.3	8922.4
77.5°	304.9	323.1	376.8	557.7	694.4	543.5	530.8	1755.3	3529.5	3546.9	3745.9
80°	244.9	256.7	286.0	392.6	532.4	406.8	346.0	708.6	1115.4	944.0	990.6
82.5°	180.1	199.9	241.7	275.7	380.8	280.4	210.9	357.8	424.2	365.0	368.1
85°	102.7	116.1	146.1	197.5	243.3	171.4	120.9	158.8	197.5	161.9	144.6
87.5°	36.3	47.4	51.3	77.4	105.9	71.1	46.6	45.8	64.8	48.2	40.3
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°	2182.6	2182.6	2182.6	2182.6	2182.6	2182.6	2182.6	2182.6	2182.6	2182.6	2182.6
2.5°	2198.4	2194.5	2178.7	2157.3	2135.2	2113.9	2106.8	2091.8	2081.5	2076.0	2082.3
5°	2242.7	2230.0	2192.9	2145.5	2095.7	2042.0	2004.1	1969.3	1944.1	1920.4	1929.8
7.5°	2305.9	2283.7	2219.7	2136.8	2048.3	1959.1	1892.7	1842.2	1808.2	1786.1	1790.8
10°	2379.3	2345.3	2247.4	2123.4	1986.7	1858.7	1780.5	1737.1	1715.8	1703.9	1707.1
12.5°	2463.8	2415.7	2275.8	2092.6	1892.7	1746.6	1692.9	1680.2	1681.0	1681.8	1683.4
15°	2568.1	2501.0	2298.7	2025.4	1770.3	1660.5	1651.0	1671.5	1692.9	1703.1	1702.3
17.5°	2685.8	2591.0	2302.7	1914.8	1650.2	1605.2	1635.2	1679.4	1711.8	1726.0	1729.2
20°	2812.2	2682.7	2274.3	1758.4	1551.5	1560.1	1613.9	1670.7	1706.3	1724.5	1729.2
22.5°	2956.8	2780.6	2206.3	1594.1	1470.9	1511.2	1574.4	1629.7	1666.8	1685.0	1689.7
25°	3121.9	2890.4	2099.7	1455.9	1401.4	1455.9	1519.1	1564.9	1594.9	1611.5	1616.2
27.5°	3305.1	3005.0	1957.5	1346.1	1340.5	1399.0	1451.1	1486.7	1502.5	1515.1	1519.9
30°	3489.2	3109.2	1785.3	1263.1	1287.6	1342.9	1380.0	1395.8	1400.6	1402.9	1408.5
32.5°	3688.3	3199.3	1604.4	1194.4	1237.1	1288.4	1310.5	1317.6	1295.5	1280.5	1285.2
35°	3929.2	3295.7	1427.4	1139.9	1187.3	1231.5	1238.6	1232.3	1206.2	1175.4	1177.0
37.5°	4227.0	3415.7	1286.0	1101.2	1140.7	1169.9	1161.2	1159.6	1162.0	1125.7	1128.0
40°	4592.0	3572.1	1182.5	1071.2	1102.8	1109.1	1084.6	1098.0	1109.9	1054.6	1056.2
42.5°	4997.2	3760.9	1117.0	1050.6	1071.2	1056.2	1018.2	1033.2	1031.7	959.0	958.2
45°	5410.3	3966.3	1094.1	1035.6	1041.9	1011.9	970.1	974.0	940.8	875.3	877.6
47.5°	5821.1	4186.7	1108.3	1023.0	1005.6	971.6	939.2	921.9	872.9	823.9	823.9
50°	6224.0	4418.2	1160.4	997.7	955.8	936.1	912.4	881.6	829.4	787.6	784.4
52.5°	6597.6	4651.2	1218.9	955.8	893.4	905.3	890.3	854.7	803.4	760.7	761.5
55°	6951.5	4884.2	1241.8	898.2	835.0	878.4	869.7	804.2	742.5	707.8	704.6
57.5°	7337.0	5164.7	1216.5	824.7	787.6	847.6	814.4	741.8	706.2	680.1	677.8
60°	7871.0	5604.7	1162.0	733.9	742.5	801.8	744.9	714.9	676.2	647.0	645.4
62.5°	8758.1	6425.4	1074.3	643.8	689.6	733.9	711.7	681.7	642.2	613.8	613.8
65°	10069.4	7566.1	909.2	573.5	630.4	667.5	676.2	646.2	605.1	575.1	576.7
67.5°	11175.4	8281.8	688.0	515.0	569.6	613.8	638.3	609.0	565.6	536.4	537.2
70°	11114.5	7762.0	525.3	457.4	515.8	560.9	592.5	569.6	522.9	495.3	497.7
72.5°	9872.0	6493.4	425.0	398.9	461.3	505.6	543.5	526.1	478.7	451.8	451.8
75°	7252.5	4609.3	339.7	339.7	393.4	447.9	489.8	478.7	435.3	416.3	410.8
77.5°	3057.1	1933.8	266.2	282.0	327.0	384.7	436.8	440.8	402.9	426.6	387.1
80°	812.9	533.2	203.0	222.0	256.7	317.6	380.0	378.4	337.3	315.2	293.1
82.5°	309.7	210.1	144.6	156.4	185.6	243.3	301.0	310.4	269.4	233.0	233.0
85°	119.3	90.1	89.3	94.0	108.2	161.1	227.5	235.4	203.0	172.2	177.7
87.5°	30.8	26.9	33.2	31.6	49.8	86.1	130.3	135.1	124.0	71.9	102.7
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)