

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: P884947

Luminaire Tested: **NAV-SB6A-730-U-T2**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884947
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-SB6A-730-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 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: 26556 lumens
Efficiency: N/A
Efficacy: 155.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

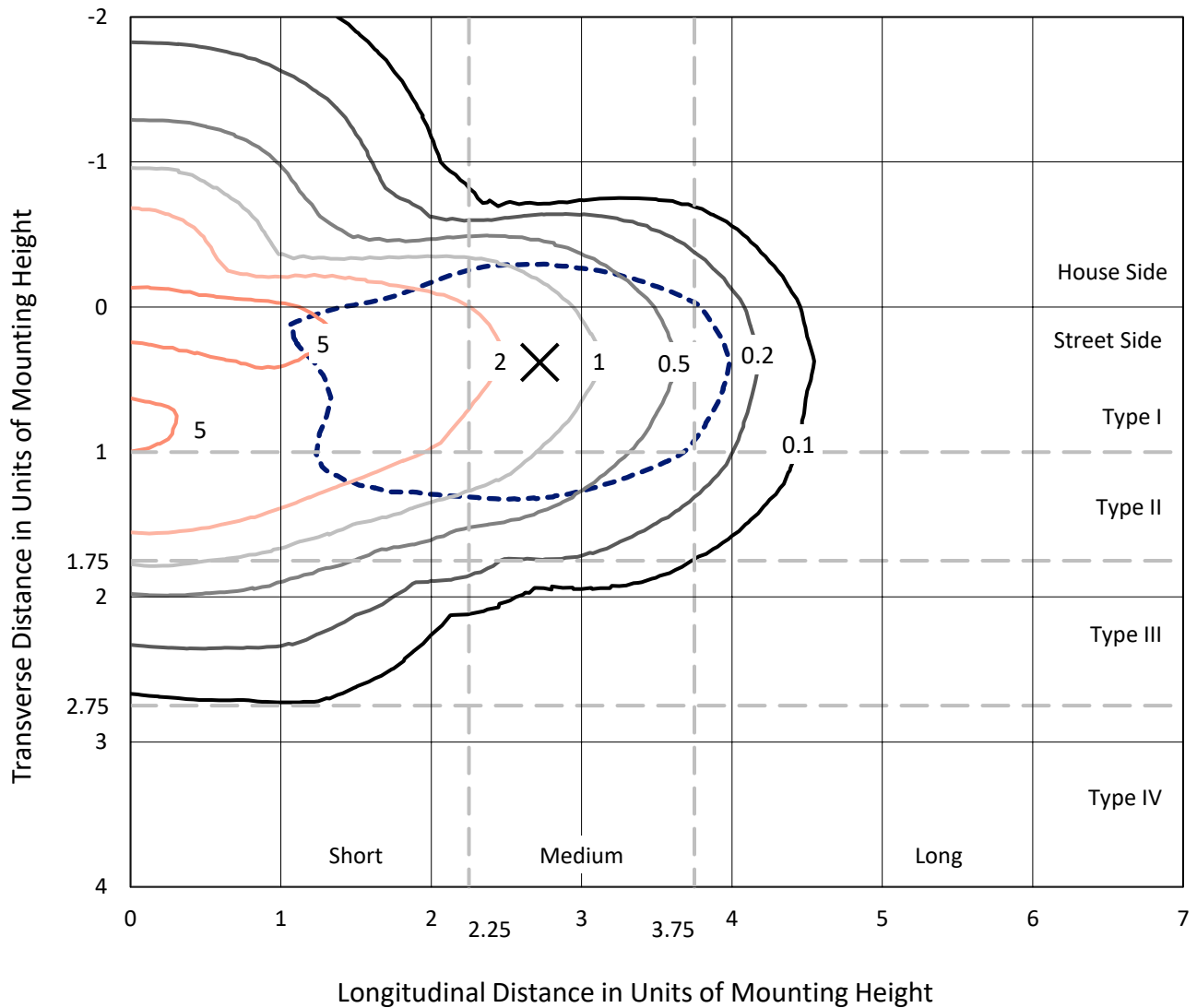
Input Watts (W): 170.9
Input Voltage (V): 120.0
Input Current (Ain): 1.434
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

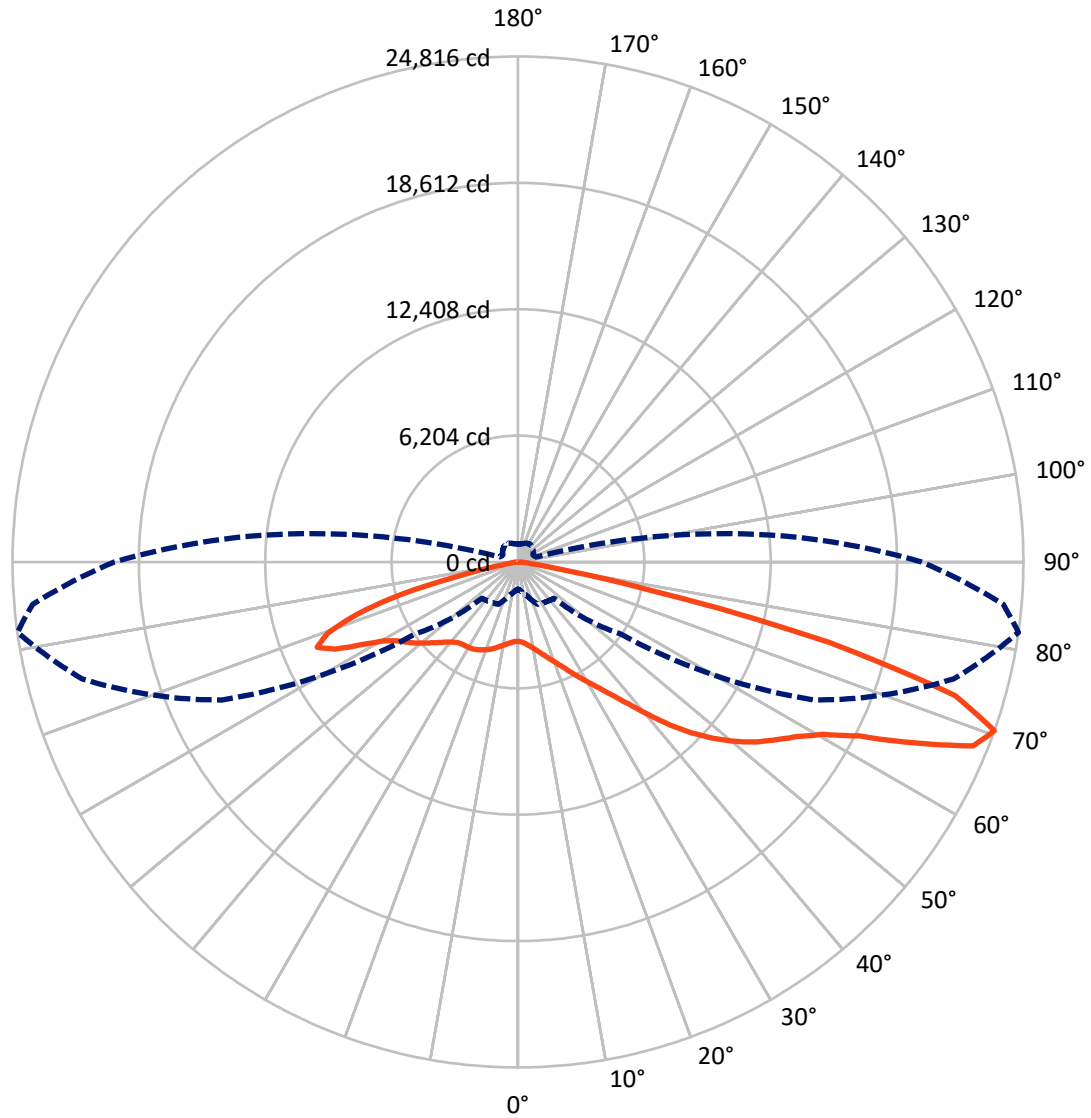
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	6546.7	0.0	6546.7
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	20009.3	0.0	20009.3
	% Fixture	75.3	0.0	75.3
Total	Lumens	26556.0	0.0	26556.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.6	1.4
10°-20°	1056.2	4.0
20°-30°	1766.9	6.7
30°-40°	2760.3	10.4
40°-50°	4396.1	16.6
50°-60°	6117.7	23.0
60°-70°	6399.4	24.1
70°-80°	3344.7	12.6
80°-90°	347.3	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°	26556.0	100.0
0°-180°	26556.0	100.0

Coefficient of Utilization



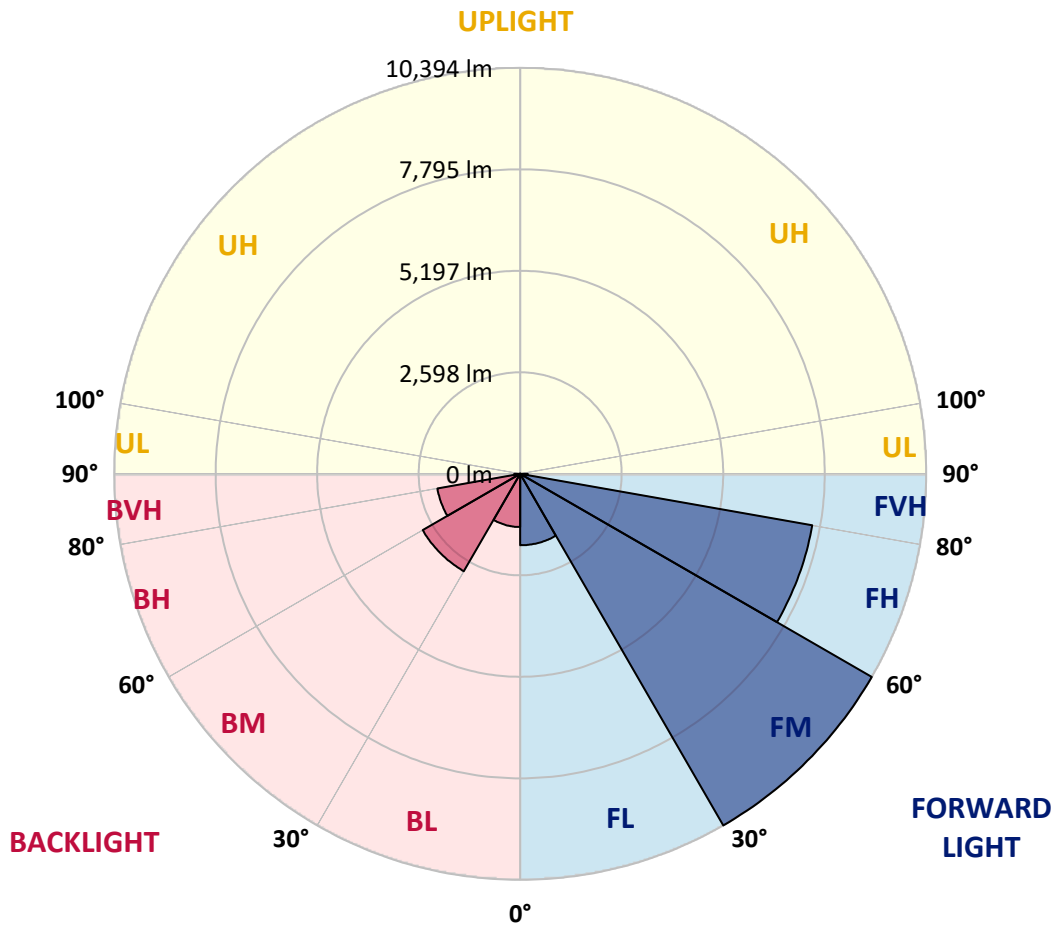
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1828.7	6.9			
FM (30°-60°)	10393.7	39.1			
FH (60°-80°)	7592.4	28.6			G4/12000
FVH (80°-90°)	194.4	0.7			G2/225
BL (0°-30°)	1362.0	5.1	B3/2500		
BM (30°-60°)	2880.3	10.8	B3/5000		
BH (60°-80°)	2151.6	8.1	B3/2500		G3/2500
BVH (80°-90°)	152.9	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	3893.4	3893.4	3893.4	3893.4	3893.4	3893.4	3893.4	3893.4	3893.4	3893.4	3893.4
2.5°	3986.4	4009.0	4001.9	3994.9	3994.9	3985.0	3983.6	3969.5	3958.3	3939.9	3935.7
5°	4037.2	4061.1	4058.3	4063.9	4082.3	4086.5	4090.7	4082.3	4059.7	4037.2	4027.3
7.5°	3992.1	4018.9	4027.3	4061.1	4117.5	4168.2	4206.3	4221.8	4200.6	4168.2	4152.7
10°	3839.9	3869.5	3899.1	3979.4	4079.4	4199.2	4300.7	4361.3	4357.0	4326.0	4299.3
12.5°	3531.3	3562.3	3625.7	3782.1	3965.3	4176.7	4365.5	4492.3	4536.0	4513.5	4467.0
15°	3284.7	3311.5	3359.4	3520.0	3758.2	4079.4	4389.5	4636.1	4747.4	4734.7	4678.3
17.5°	3277.6	3288.9	3318.5	3394.6	3577.8	3927.3	4364.1	4777.0	4989.7	4988.3	4917.9
20°	3401.7	3405.9	3422.8	3438.3	3542.6	3811.7	4299.3	4893.9	5261.7	5261.7	5185.6
22.5°	3573.6	3570.7	3587.7	3573.6	3624.3	3801.8	4258.4	4996.8	5564.7	5587.2	5491.4
25°	3831.4	3817.3	3813.1	3780.7	3790.6	3893.4	4303.5	5113.8	5924.0	5970.5	5850.7
27.5°	4175.3	4152.7	4137.2	4062.5	4037.2	4082.3	4441.6	5254.7	6324.2	6404.5	6252.3
30°	4623.4	4582.5	4560.0	4430.3	4338.7	4345.8	4650.1	5442.1	6742.7	6872.4	6679.3
32.5°	5234.9	5171.5	5110.9	4898.2	4730.5	4675.5	4919.3	5701.4	7196.5	7403.6	7155.6
35°	5919.8	5869.0	5804.2	5475.9	5218.0	5091.2	5282.8	6063.5	7727.7	8056.0	7733.3
37.5°	6579.3	6535.6	6566.6	6124.1	5791.5	5607.0	5759.1	6549.7	8382.9	8867.7	8457.6
40°	7261.3	7227.5	7231.7	6808.9	6421.4	6214.3	6336.9	7159.8	9134.0	9832.9	9328.5
42.5°	8002.5	7977.1	7892.6	7517.7	7082.3	6889.3	7002.0	7864.4	9940.0	10932.1	10283.9
45°	8832.5	8817.0	8738.0	8308.3	7809.4	7592.4	7744.6	8642.2	10750.3	11966.4	11243.5
47.5°	9549.7	9562.4	9552.5	9190.4	8673.2	8354.8	8536.5	9453.9	11504.2	12938.7	12163.7
50°	9895.0	9961.2	10058.4	9945.7	9624.4	9300.3	9335.5	10237.4	12222.8	13850.4	13045.8
52.5°	9714.6	9840.0	10104.9	10285.3	10409.3	10341.6	10247.2	11015.2	12899.2	14673.3	13880.0
55°	9042.4	9218.6	9658.2	10093.6	10726.3	11218.1	11342.1	11877.6	13558.7	15397.6	14669.1
57.5°	7817.9	8103.9	8498.5	9379.2	10444.5	11642.3	12618.8	13074.0	14257.6	16171.2	15494.9
60°	5718.3	6101.6	6591.9	7902.4	9458.1	11415.4	13705.3	14911.5	15251.1	17173.1	16570.0
62.5°	3659.5	3896.3	4347.2	5581.6	7369.8	10252.9	14037.8	17208.4	16935.0	18816.2	18182.1
65°	2505.4	2657.6	3070.5	3763.8	4764.3	7631.9	13147.2	18930.3	19609.5	21420.3	20938.3
67.5°	1820.6	1936.2	2288.4	2895.8	3104.3	4516.3	10202.1	18851.4	22209.4	24103.3	23353.6
70°	1327.4	1409.1	1705.1	2288.4	2388.5	2512.5	6180.5	16024.7	22153.0	24816.3	23918.7
72.5°	983.6	1039.9	1238.6	1775.5	1933.3	1696.6	3059.2	11646.5	19036.0	22446.1	21726.1
75°	711.6	753.9	900.4	1358.4	1547.2	1292.2	1526.1	6806.1	13278.3	15789.4	15916.2
77.5°	543.9	576.3	672.2	994.8	1238.6	969.5	946.9	3131.1	6296.0	6327.0	6682.1
80°	436.8	458.0	510.1	700.3	949.8	725.7	617.2	1264.0	1989.7	1683.9	1767.1
82.5°	321.3	356.5	431.2	491.8	679.2	500.2	376.2	638.3	756.7	651.0	656.7
85°	183.2	207.1	260.7	352.3	434.0	305.8	215.6	283.2	352.3	288.9	257.9
87.5°	64.8	84.5	91.6	138.1	188.8	126.8	83.1	81.7	115.5	86.0	71.9
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°	3893.4	3893.4	3893.4	3893.4	3893.4	3893.4	3893.4	3893.4	3893.4	3893.4	3893.4
2.5°	3921.6	3914.6	3886.4	3848.3	3808.9	3770.8	3758.2	3731.4	3713.1	3703.2	3714.5
5°	4000.5	3978.0	3911.8	3827.2	3738.4	3642.6	3575.0	3513.0	3467.9	3425.6	3442.5
7.5°	4113.3	4073.8	3959.7	3811.7	3653.9	3494.7	3376.3	3286.1	3225.5	3186.1	3194.5
10°	4244.3	4183.7	4009.0	3787.8	3544.0	3315.7	3176.2	3098.7	3060.6	3039.5	3045.1
12.5°	4395.1	4309.1	4059.7	3732.8	3376.3	3115.6	3019.8	2997.2	2998.6	3000.0	3002.9
15°	4581.1	4461.3	4100.6	3613.0	3157.9	2962.0	2945.1	2981.7	3019.8	3038.1	3036.7
17.5°	4791.1	4622.0	4107.6	3415.7	2943.7	2863.4	2916.9	2995.8	3053.6	3079.0	3084.6
20°	5016.5	4785.4	4056.9	3136.7	2767.5	2783.0	2878.9	2980.3	3043.7	3076.1	3084.6
22.5°	5274.4	4960.2	3935.7	2843.6	2623.8	2695.7	2808.4	2907.0	2973.3	3005.7	3014.1
25°	5568.9	5156.0	3745.5	2597.0	2499.8	2597.0	2709.8	2791.5	2845.0	2874.6	2883.1
27.5°	5895.8	5360.4	3491.8	2401.2	2391.3	2495.6	2588.6	2652.0	2680.2	2702.7	2711.2
30°	6224.2	5546.4	3184.6	2253.2	2296.9	2395.5	2461.8	2489.9	2498.4	2502.6	2512.5
32.5°	6579.3	5707.0	2862.0	2130.6	2206.7	2298.3	2337.8	2350.4	2311.0	2284.2	2292.7
35°	7009.0	5878.9	2546.3	2033.4	2117.9	2196.8	2209.5	2198.3	2151.8	2096.8	2099.6
37.5°	7540.3	6093.1	2294.1	1964.3	2034.8	2086.9	2071.4	2068.6	2072.8	2008.0	2012.2
40°	8191.3	6372.1	2109.5	1910.8	1967.2	1978.4	1934.7	1958.7	1979.8	1881.2	1884.0
42.5°	8914.2	6708.9	1992.5	1874.2	1910.8	1884.0	1816.4	1843.1	1840.3	1710.7	1709.3
45°	9651.2	7075.3	1951.7	1847.4	1858.6	1805.1	1730.4	1737.5	1678.3	1561.3	1565.5
47.5°	10383.9	7468.4	1977.0	1824.8	1793.8	1733.2	1675.5	1644.5	1557.1	1469.7	1469.7
50°	11102.6	7881.3	2070.0	1779.7	1705.1	1669.8	1627.6	1572.6	1479.6	1404.9	1399.3
52.5°	11769.1	8297.0	2174.3	1705.1	1593.7	1614.9	1588.1	1524.7	1433.1	1357.0	1358.4
55°	12400.4	8712.7	2215.2	1602.2	1489.5	1567.0	1551.5	1434.5	1324.6	1262.6	1256.9
57.5°	13088.1	9212.9	2170.1	1471.1	1404.9	1512.0	1452.8	1323.2	1259.8	1213.3	1209.0
60°	14040.6	9997.8	2072.8	1309.1	1324.6	1430.3	1328.8	1275.3	1206.2	1154.1	1151.3
62.5°	15623.1	11461.9	1916.4	1148.4	1230.2	1309.1	1269.6	1216.1	1145.6	1094.9	1094.9
65°	17962.3	13496.7	1621.9	1023.0	1124.5	1190.7	1206.2	1152.7	1079.4	1025.9	1028.7
67.5°	19935.0	14773.4	1227.4	918.8	1016.0	1094.9	1138.6	1086.4	1008.9	956.8	958.2
70°	19826.5	13846.2	937.1	815.9	920.2	1000.5	1056.9	1016.0	932.8	883.5	887.8
72.5°	17610.0	11583.1	758.1	711.6	822.9	901.8	969.5	938.5	853.9	806.0	806.0
75°	12937.3	8222.3	605.9	605.9	701.7	799.0	873.7	853.9	776.4	742.6	732.8
77.5°	5453.4	3449.6	474.9	503.1	583.4	686.2	779.3	786.3	718.7	760.9	690.5
80°	1450.0	951.2	362.1	396.0	458.0	566.5	677.8	675.0	601.7	562.2	522.8
82.5°	552.4	374.8	257.9	279.0	331.1	434.0	536.9	553.8	480.5	415.7	415.7
85°	212.8	160.6	159.2	167.7	193.1	287.5	405.8	419.9	362.1	307.2	317.1
87.5°	55.0	47.9	59.2	56.4	88.8	153.6	232.5	241.0	221.2	128.2	183.2
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)