

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: P885117

Luminaire Tested: **NAV-SB6B-730-U-T2**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885117
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-SB6B-730-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33337 lumens
Efficiency: N/A
Efficacy: 151.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

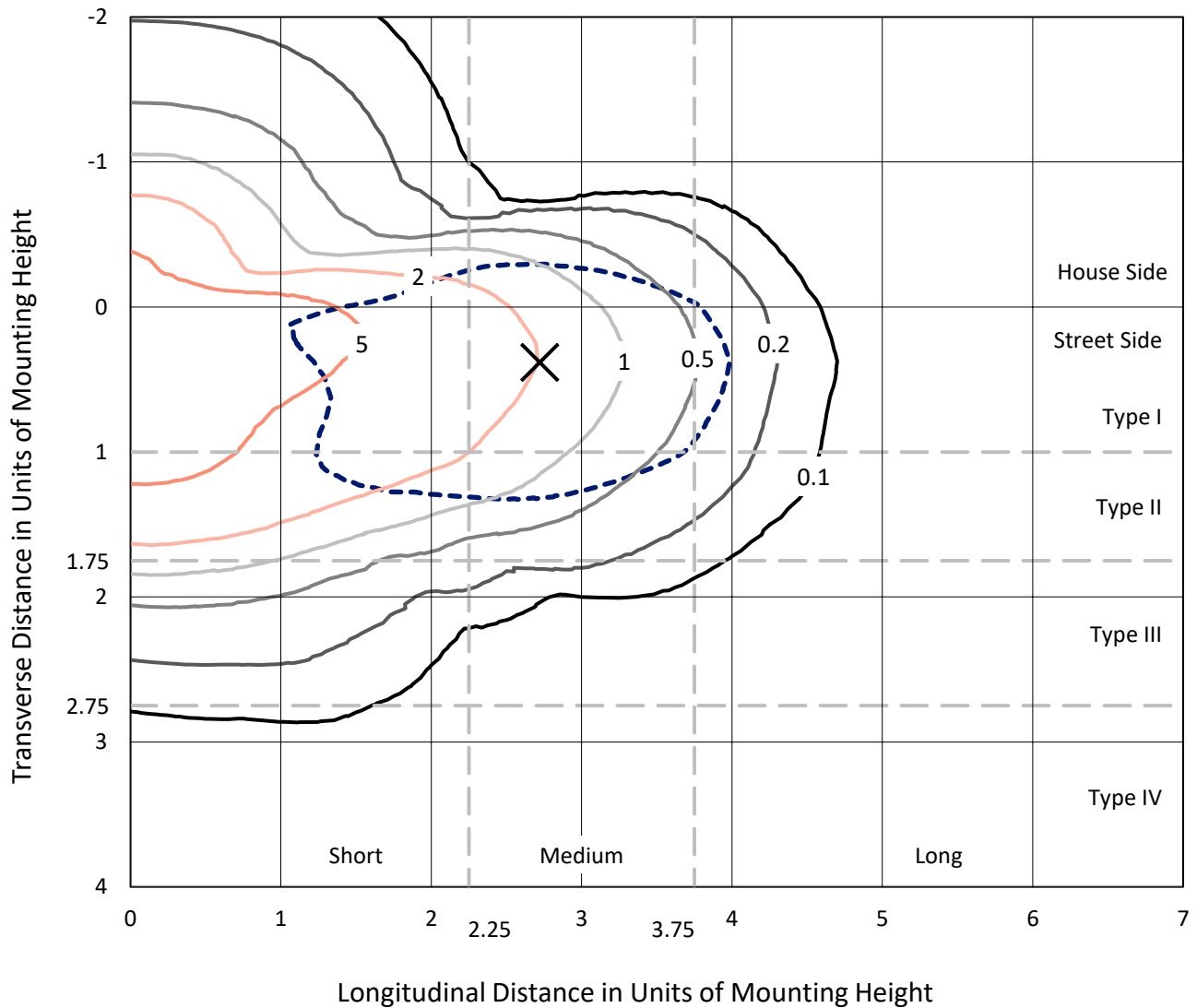
Input Watts (W): 220.4
Input Voltage (V): 120.0
Input Current (Ain): 1.838
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

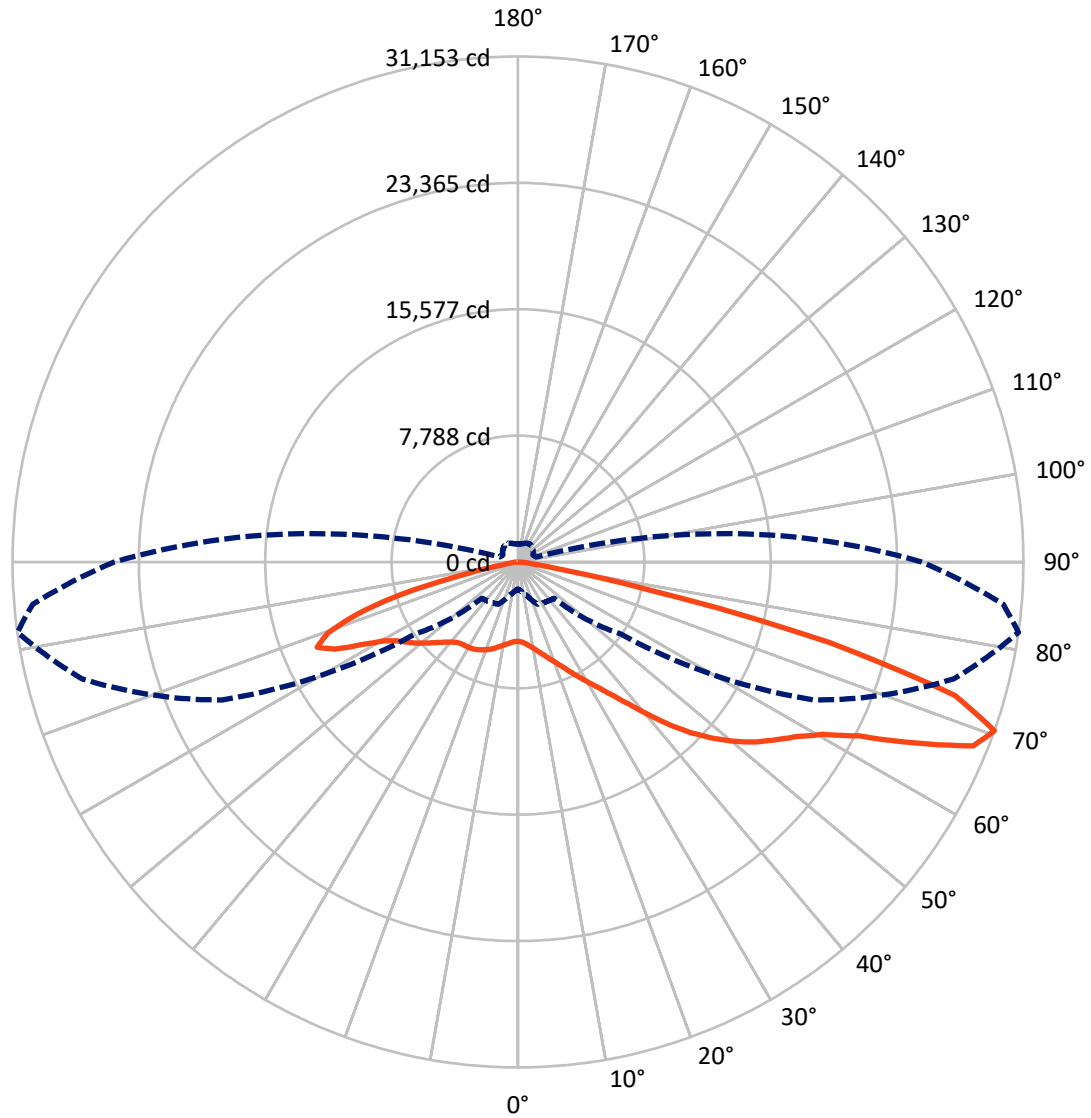
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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	8218.4	0.0	8218.4
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	25118.6	0.0	25118.6
	% Fixture	75.3	0.0	75.3
Total	Lumens	33337.0	0.0	33337.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	461.5	1.4
10°-20°	1325.9	4.0
20°-30°	2218.0	6.7
30°-40°	3465.1	10.4
40°-50°	5518.6	16.6
50°-60°	7679.8	23.0
60°-70°	8033.4	24.1
70°-80°	4198.7	12.6
80°-90°	436.0	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°	33337.0	100.0
0°-180°	33337.0	100.0

Coefficient of Utilization

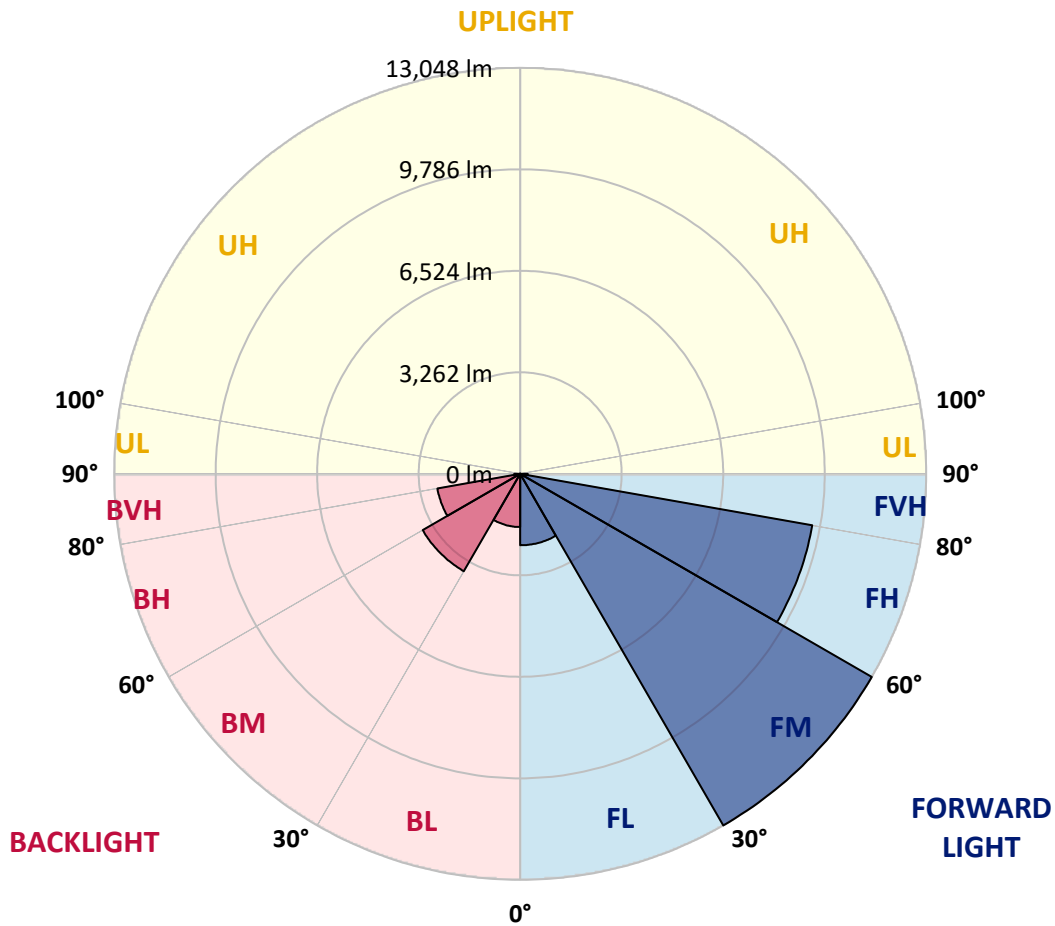


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2295.6	6.9			
FM (30°-60°)	13047.8	39.1			
FH (60°-80°)	9531.2	28.6			G4/12000
FVH (80°-90°)	244.1	0.7			G3/500
BL (0°-30°)	1709.7	5.1	B3/2500		
BM (30°-60°)	3615.8	10.8	B3/5000		
BH (60°-80°)	2701.0	8.1	B4/5000		G4/5000
BVH (80°-90°)	191.9	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	4887.6	4887.6	4887.6	4887.6	4887.6	4887.6	4887.6	4887.6	4887.6	4887.6	4887.6
2.5°	5004.4	5032.7	5023.8	5015.0	5015.0	5002.6	5000.8	4983.1	4969.0	4946.0	4940.7
5°	5068.1	5098.1	5094.6	5101.7	5124.7	5130.0	5135.3	5124.7	5096.4	5068.1	5055.7
7.5°	5011.4	5045.1	5055.7	5098.1	5168.9	5232.6	5280.3	5299.8	5273.3	5232.6	5213.1
10°	4820.4	4857.5	4894.7	4995.5	5121.1	5271.5	5398.8	5474.9	5469.6	5430.7	5397.1
12.5°	4433.0	4471.9	4551.5	4747.9	4977.8	5243.2	5480.2	5639.4	5694.3	5666.0	5607.6
15°	4123.4	4157.0	4217.2	4418.8	4717.8	5121.1	5510.3	5819.9	5959.6	5943.7	5872.9
17.5°	4114.6	4128.7	4165.9	4261.4	4491.4	4930.1	5478.5	5996.8	6263.9	6262.1	6173.7
20°	4270.3	4275.6	4296.8	4316.2	4447.2	4785.0	5397.1	6143.6	6605.3	6605.3	6509.8
22.5°	4486.1	4482.5	4503.8	4486.1	4549.8	4772.6	5345.8	6272.7	6985.6	7013.9	6893.6
25°	4809.8	4792.1	4786.8	4746.1	4758.5	4887.6	5402.4	6419.5	7436.7	7495.1	7344.7
27.5°	5241.4	5213.1	5193.7	5099.9	5068.1	5124.7	5575.7	6596.4	7939.1	8039.9	7848.9
30°	5803.9	5752.6	5724.3	5561.6	5446.6	5455.5	5837.5	6831.7	8464.4	8627.2	8384.8
32.5°	6571.7	6492.1	6416.0	6148.9	5938.4	5869.4	6175.4	7157.2	9034.1	9294.1	8982.8
35°	7431.4	7367.7	7286.3	6874.2	6550.4	6391.2	6631.8	7611.8	9700.9	10113.1	9708.0
37.5°	8259.2	8204.4	8243.3	7687.9	7270.4	7038.7	7229.7	8222.1	10523.5	11132.0	10617.3
40°	9115.4	9073.0	9078.3	8547.6	8061.1	7801.1	7955.0	8988.1	11466.4	12343.8	11710.5
42.5°	10045.9	10014.1	9907.9	9437.4	8890.8	8648.4	8789.9	9872.5	12478.2	13723.5	12909.8
45°	11087.8	11068.3	10969.3	10429.8	9803.5	9531.1	9722.2	10849.0	13495.4	15022.0	14114.5
47.5°	11988.2	12004.1	11991.7	11537.1	10887.9	10488.1	10716.3	11867.9	14441.7	16242.5	15269.6
50°	12421.6	12504.7	12626.8	12485.3	12082.0	11675.1	11719.3	12851.5	15343.9	17387.1	16377.0
52.5°	12195.2	12352.6	12685.2	12911.6	13067.3	12982.4	12863.8	13827.9	16193.0	18420.1	17424.2
55°	11351.4	11572.5	12124.4	12671.0	13465.3	14082.6	14238.3	14910.5	17020.9	19329.4	18414.8
57.5°	9814.2	10173.3	10668.6	11774.2	13111.5	14615.1	15841.0	16412.4	17898.3	20300.5	19451.4
60°	7178.4	7659.6	8275.2	9920.3	11873.2	14330.3	17204.9	18719.1	19145.4	21558.2	20801.1
62.5°	4594.0	4891.2	5457.2	7006.8	9251.6	12870.9	17622.3	21602.5	21259.3	23620.8	22824.8
65°	3145.2	3336.2	3854.6	4724.9	5980.8	9580.7	16504.3	23764.1	24616.8	26889.9	26284.9
67.5°	2285.5	2430.5	2872.8	3635.2	3897.0	5669.5	12807.2	23665.1	27880.5	30258.0	29316.9
70°	1666.4	1769.0	2140.4	2872.8	2998.4	3154.0	7758.6	20116.5	27809.7	31153.1	30026.2
72.5°	1234.7	1305.5	1554.9	2228.9	2427.0	2129.8	3840.4	14620.4	23896.8	28177.7	27273.7
75°	893.3	946.4	1130.4	1705.3	1942.3	1622.1	1915.8	8544.0	16668.9	19821.1	19980.3
77.5°	682.8	723.5	843.8	1248.9	1554.9	1217.0	1188.7	3930.6	7903.7	7942.6	8388.4
80°	548.4	574.9	640.4	879.2	1192.3	911.0	774.8	1586.8	2497.8	2113.9	2218.3
82.5°	403.3	447.5	541.3	617.4	852.6	628.0	472.3	801.3	949.9	817.3	824.3
85°	230.0	260.0	327.3	442.2	544.8	383.9	270.7	355.6	442.2	362.6	323.7
87.5°	81.4	106.1	115.0	173.4	237.0	159.2	104.4	102.6	145.1	107.9	90.2
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°	4887.6	4887.6	4887.6	4887.6	4887.6	4887.6	4887.6	4887.6	4887.6	4887.6	4887.6
2.5°	4923.0	4914.2	4878.8	4831.0	4781.5	4733.7	4717.8	4684.2	4661.2	4648.8	4663.0
5°	5022.1	4993.8	4910.6	4804.5	4693.0	4572.7	4487.8	4410.0	4353.4	4300.3	4321.6
7.5°	5163.6	5114.0	4970.8	4785.0	4586.9	4387.0	4238.4	4125.2	4049.1	3999.6	4010.2
10°	5328.1	5252.0	5032.7	4754.9	4448.9	4162.3	3987.2	3889.9	3842.2	3815.6	3822.7
12.5°	5517.4	5409.5	5096.4	4686.0	4238.4	3911.2	3790.9	3762.6	3764.3	3766.1	3769.6
15°	5750.9	5600.5	5147.7	4535.6	3964.2	3718.3	3697.1	3743.1	3790.9	3813.9	3812.1
17.5°	6014.4	5802.2	5156.5	4287.9	3695.3	3594.5	3661.7	3760.8	3833.3	3865.2	3872.2
20°	6297.5	6007.4	5092.8	3937.7	3474.2	3493.7	3614.0	3741.3	3820.9	3861.6	3872.2
22.5°	6621.2	6226.7	4940.7	3569.8	3293.8	3384.0	3525.5	3649.4	3732.5	3773.2	3783.8
25°	6990.9	6472.6	4701.9	3260.2	3138.1	3260.2	3401.7	3504.3	3571.5	3608.7	3619.3
27.5°	7401.3	6729.1	4383.5	3014.3	3001.9	3132.8	3249.6	3329.2	3364.6	3392.9	3403.5
30°	7813.5	6962.6	3997.8	2828.6	2883.4	3007.2	3090.4	3125.7	3136.4	3141.7	3154.0
32.5°	8259.2	7164.3	3592.7	2674.7	2770.2	2885.2	2934.7	2950.6	2901.1	2867.5	2878.1
35°	8798.8	7380.1	3196.5	2552.6	2658.7	2757.8	2773.7	2759.6	2701.2	2632.2	2635.7
37.5°	9465.7	7649.0	2879.9	2465.9	2554.4	2619.8	2600.4	2596.8	2602.1	2520.8	2526.1
40°	10282.9	7999.2	2648.1	2398.7	2469.5	2483.6	2428.8	2458.8	2485.4	2361.6	2365.1
42.5°	11190.4	8422.0	2501.3	2352.7	2398.7	2365.1	2280.2	2313.8	2310.3	2147.5	2145.7
45°	12115.6	8881.9	2450.0	2319.1	2333.3	2266.0	2172.3	2181.1	2106.8	1960.0	1965.3
47.5°	13035.4	9375.5	2481.8	2290.8	2251.9	2175.8	2103.3	2064.4	1954.7	1845.0	1845.0
50°	13937.6	9893.8	2598.6	2234.2	2140.4	2096.2	2043.1	1974.2	1857.4	1763.6	1756.6
52.5°	14774.3	10415.6	2729.5	2140.4	2000.7	2027.2	1993.6	1914.0	1799.0	1703.5	1705.3
55°	15566.8	10937.4	2780.8	2011.3	1869.8	1967.1	1947.6	1800.8	1662.8	1585.0	1577.9
57.5°	16430.0	11565.4	2724.2	1846.8	1763.6	1898.1	1823.8	1661.0	1581.4	1523.1	1517.8
60°	17625.9	12550.7	2602.1	1643.4	1662.8	1795.5	1668.1	1600.9	1514.2	1448.8	1445.2
62.5°	19612.4	14388.7	2405.8	1441.7	1544.3	1643.4	1593.8	1526.6	1438.2	1374.5	1374.5
65°	22548.9	16943.0	2036.1	1284.3	1411.6	1494.8	1514.2	1447.0	1355.0	1287.8	1291.3
67.5°	25025.4	18545.7	1540.8	1153.4	1275.4	1374.5	1429.3	1363.9	1266.6	1201.1	1202.9
70°	24889.2	17381.7	1176.4	1024.2	1155.1	1256.0	1326.7	1275.4	1171.0	1109.1	1114.4
72.5°	22106.6	14540.8	951.7	893.3	1033.1	1132.1	1217.0	1178.1	1072.0	1011.8	1011.8
75°	16240.8	10321.8	760.7	760.7	880.9	1003.0	1096.8	1072.0	974.7	932.2	919.9
77.5°	6845.9	4330.4	596.1	631.5	732.3	861.5	978.2	987.1	902.2	955.2	866.8
80°	1820.3	1194.0	454.6	497.1	574.9	711.1	850.9	847.3	755.3	705.8	656.3
82.5°	693.4	470.5	323.7	350.3	415.7	544.8	674.0	695.2	603.2	521.8	521.8
85°	267.1	201.7	199.9	210.5	242.3	360.9	509.5	527.1	454.6	385.6	398.0
87.5°	69.0	60.1	74.3	70.8	111.4	192.8	291.9	302.5	277.7	161.0	230.0
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)