

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: P885097

Luminaire Tested: **NAV-SB6B-722-U-T2**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885097
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-722-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26987 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

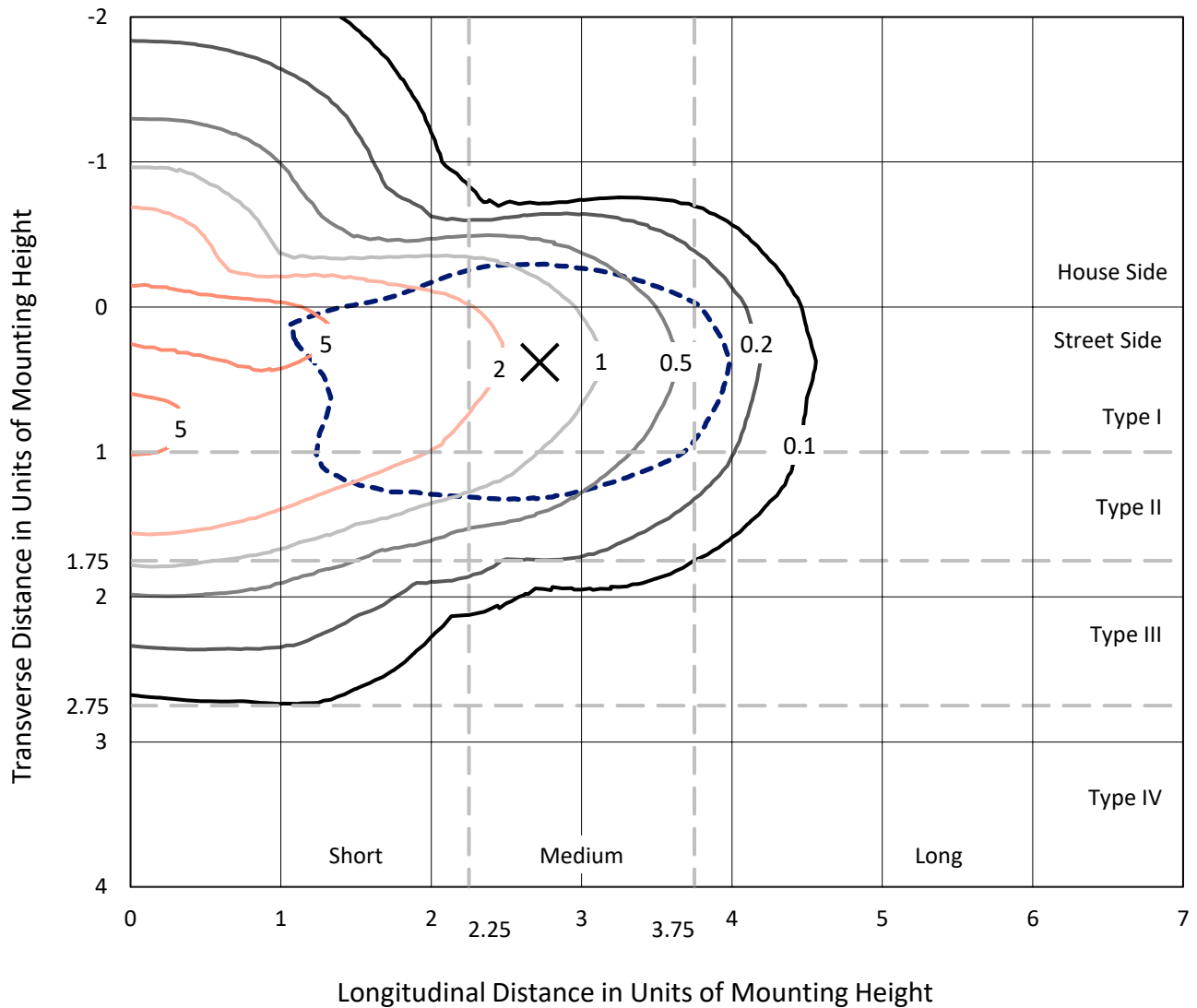
Input Watts (W): 220.4
Input Voltage (V): 120.0
Input Current (Ain): 1.838
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

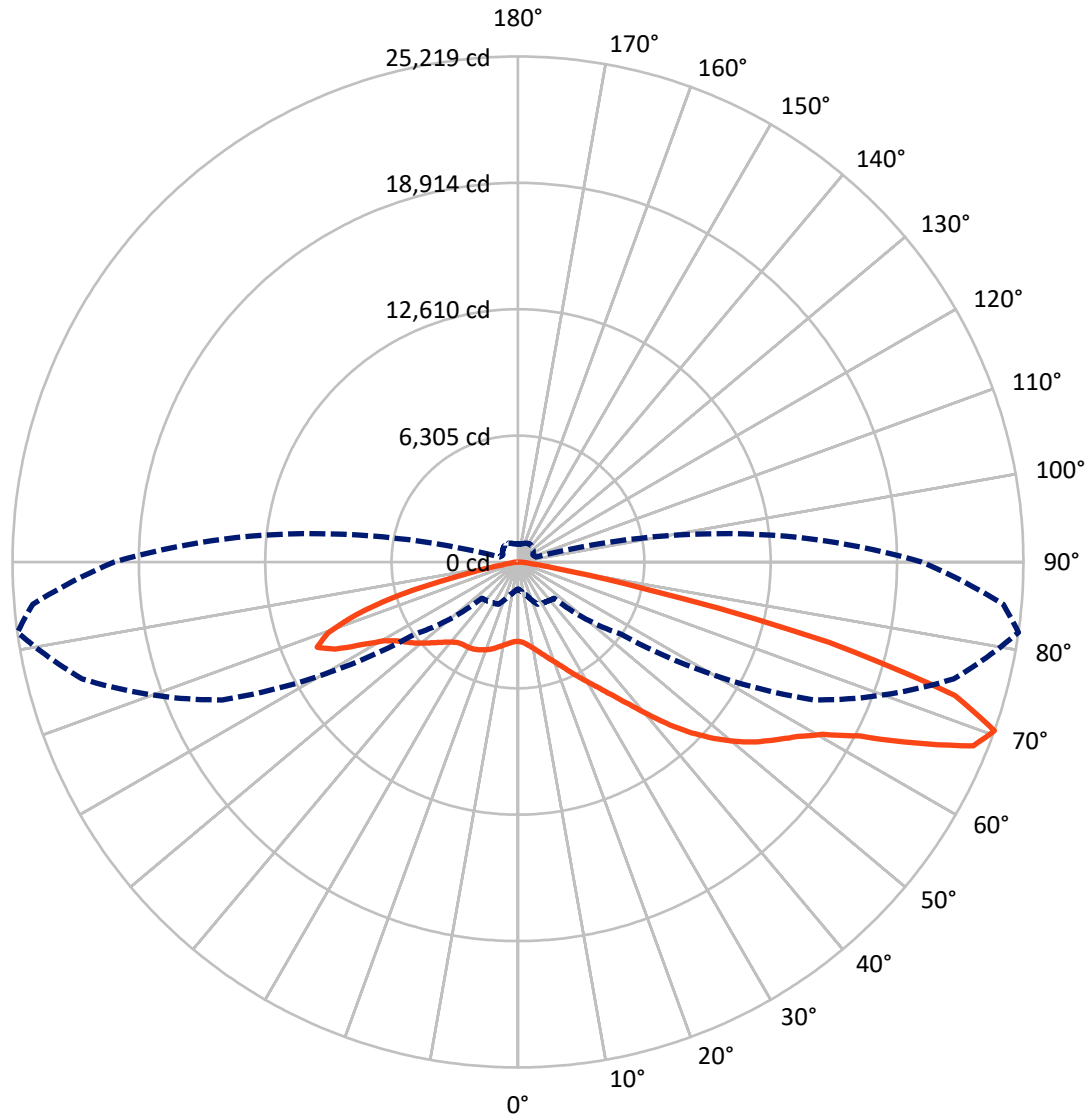
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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	6653.0	0.0	6653.0
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	20334.0	0.0	20334.0
	% Fixture	75.3	0.0	75.3
Total	Lumens	26987.0	0.0	26987.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.6	1.4
10°-20°	1073.3	4.0
20°-30°	1795.5	6.7
30°-40°	2805.1	10.4
40°-50°	4467.4	16.6
50°-60°	6217.0	23.0
60°-70°	6503.2	24.1
70°-80°	3398.9	12.6
80°-90°	352.9	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°	26987.0	100.0
0°-180°	26987.0	100.0

Coefficient of Utilization

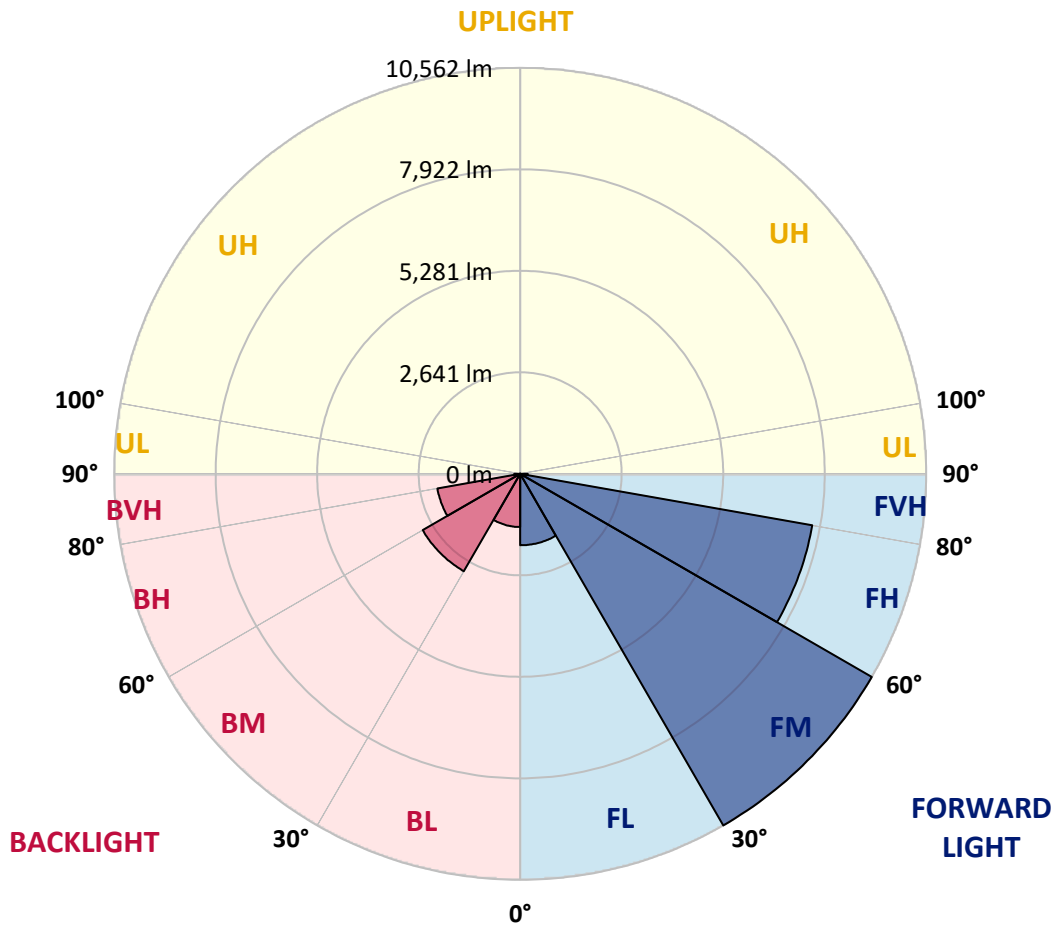


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1858.4	6.9			
FM (30°-60°)	10562.4	39.1			
FH (60°-80°)	7715.7	28.6			G4/12000
FVH (80°-90°)	197.6	0.7			G2/225
BL (0°-30°)	1384.1	5.1	B3/2500		
BM (30°-60°)	2927.0	10.8	B3/5000		
BH (60°-80°)	2186.5	8.1	B3/2500		G3/2500
BVH (80°-90°)	155.4	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°	3956.6	3956.6	3956.6	3956.6	3956.6	3956.6	3956.6	3956.6	3956.6	3956.6	3956.6
2.5°	4051.1	4074.1	4066.9	4059.7	4059.7	4049.7	4048.3	4034.0	4022.5	4003.9	3999.6
5°	4102.7	4127.0	4124.2	4129.9	4148.5	4152.8	4157.1	4148.5	4125.6	4102.7	4092.7
7.5°	4056.9	4084.1	4092.7	4127.0	4184.3	4235.9	4274.5	4290.3	4268.8	4235.9	4220.1
10°	3902.2	3932.3	3962.4	4044.0	4145.7	4267.4	4370.5	4432.1	4427.8	4396.3	4369.0
12.5°	3588.6	3620.1	3684.6	3843.5	4029.7	4244.5	4436.4	4565.2	4609.6	4586.7	4539.5
15°	3338.0	3365.2	3413.9	3577.2	3819.2	4145.7	4460.7	4711.3	4824.4	4811.5	4754.3
17.5°	3330.8	3342.3	3372.4	3449.7	3635.9	3991.0	4434.9	4854.5	5070.7	5069.3	4997.7
20°	3456.9	3461.2	3478.3	3494.1	3600.1	3873.6	4369.0	4973.4	5347.1	5347.1	5269.8
22.5°	3631.6	3628.7	3645.9	3631.6	3683.1	3863.6	4327.5	5077.9	5655.0	5677.9	5580.5
25°	3893.6	3879.3	3875.0	3842.1	3852.1	3956.6	4373.3	5196.7	6020.2	6067.4	5945.7
27.5°	4243.0	4220.1	4204.4	4128.5	4102.7	4148.5	4513.7	5339.9	6426.8	6508.5	6353.8
30°	4698.4	4656.9	4634.0	4502.2	4409.1	4416.3	4725.6	5530.4	6852.1	6983.9	6787.7
32.5°	5319.9	5255.5	5193.9	4977.7	4807.2	4751.4	4999.1	5793.9	7313.3	7523.8	7271.7
35°	6015.9	5964.3	5898.4	5564.8	5302.7	5173.8	5368.6	6161.9	7853.1	8186.8	7858.8
37.5°	6686.0	6641.6	6673.1	6223.5	5885.5	5698.0	5852.6	6656.0	8519.0	9011.6	8594.9
40°	7379.1	7344.8	7349.1	6919.5	6525.6	6315.1	6439.7	7276.0	9282.3	9992.5	9479.9
42.5°	8132.4	8106.6	8020.7	7639.8	7197.3	7001.1	7115.6	7992.0	10101.4	11109.5	10450.8
45°	8975.8	8960.1	8879.9	8443.1	7936.2	7715.6	7870.3	8782.5	10924.8	12160.6	11426.0
47.5°	9704.7	9717.6	9707.6	9339.5	8814.0	8490.4	8675.1	9607.3	11690.9	13148.7	12361.1
50°	10055.5	10122.8	10221.7	10107.1	9780.6	9451.2	9487.0	10403.5	12421.2	14075.2	13257.5
52.5°	9872.2	9999.7	10268.9	10452.2	10578.2	10509.5	10413.5	11194.0	13108.6	14911.5	14105.3
55°	9189.2	9368.2	9815.0	10257.5	10900.4	11400.2	11526.2	12070.4	13778.8	15647.5	14907.2
57.5°	7944.8	8235.5	8636.4	9531.4	10614.0	11831.2	12823.6	13286.1	14489.0	16433.7	15746.3
60°	5811.1	6200.6	6698.9	8030.7	9611.6	11600.7	13927.7	15153.5	15498.6	17451.9	16839.0
62.5°	3718.9	3959.5	4417.7	5672.2	7489.4	10419.3	14265.6	17487.7	17209.8	19121.6	18477.2
65°	2546.1	2700.8	3120.3	3824.9	4841.6	7755.7	13360.6	19237.6	19927.8	21767.9	21278.2
67.5°	1850.2	1967.6	2325.6	2942.8	3154.7	4589.6	10367.7	19157.4	22569.8	24494.5	23732.6
70°	1348.9	1432.0	1732.7	2325.6	2427.2	2553.3	6280.8	16284.8	22512.6	25219.1	24306.9
72.5°	999.5	1056.8	1258.7	1804.3	1964.7	1724.1	3108.9	11835.5	19345.0	22810.4	22078.7
75°	723.2	766.1	915.1	1380.5	1572.3	1313.1	1550.9	6916.6	13493.8	16045.6	16174.5
77.5°	552.8	585.7	683.1	1011.0	1258.7	985.2	962.3	3181.9	6398.2	6429.7	6790.6
80°	443.9	465.4	518.4	711.7	965.2	737.5	627.2	1284.5	2022.0	1711.2	1795.7
82.5°	326.5	362.3	438.2	499.8	690.2	508.4	382.3	648.7	769.0	661.6	667.3
85°	186.2	210.5	264.9	358.0	441.1	310.7	219.1	287.8	358.0	293.6	262.1
87.5°	65.9	85.9	93.1	140.3	191.9	128.9	84.5	83.1	117.4	87.4	73.0
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°	3956.6	3956.6	3956.6	3956.6	3956.6	3956.6	3956.6	3956.6	3956.6	3956.6	3956.6
2.5°	3985.3	3978.1	3949.5	3910.8	3870.7	3832.0	3819.2	3792.0	3773.3	3763.3	3774.8
5°	4065.5	4042.6	3975.2	3889.3	3799.1	3701.7	3633.0	3570.0	3524.2	3481.2	3498.4
7.5°	4180.0	4139.9	4023.9	3873.6	3713.2	3551.4	3431.1	3339.4	3277.9	3237.8	3246.4
10°	4313.2	4251.6	4074.1	3849.2	3601.5	3369.5	3227.7	3149.0	3110.3	3088.8	3094.6
12.5°	4466.4	4379.1	4125.6	3793.4	3431.1	3166.2	3068.8	3045.9	3047.3	3048.7	3051.6
15°	4655.5	4533.7	4167.1	3671.7	3209.1	3010.1	2992.9	3030.1	3068.8	3087.4	3086.0
17.5°	4868.8	4697.0	4174.3	3471.2	2991.5	2909.8	2964.3	3044.4	3103.2	3128.9	3134.7
20°	5097.9	4863.1	4122.7	3187.6	2812.5	2828.2	2925.6	3028.7	3093.1	3126.1	3134.7
22.5°	5360.0	5040.7	3999.6	2889.8	2666.4	2739.4	2854.0	2954.2	3021.5	3054.5	3063.1
25°	5659.3	5239.7	3806.3	2639.2	2540.4	2639.2	2753.7	2836.8	2891.2	2921.3	2929.9
27.5°	5991.5	5447.3	3548.5	2440.1	2430.1	2536.1	2630.6	2695.0	2723.7	2746.6	2755.2
30°	6325.2	5636.4	3236.3	2289.8	2334.2	2434.4	2501.7	2530.4	2538.9	2543.2	2553.3
32.5°	6686.0	5799.6	2908.4	2165.2	2242.5	2335.6	2375.7	2388.6	2348.5	2321.3	2329.9
35°	7122.8	5974.3	2587.6	2066.4	2152.3	2232.5	2245.4	2233.9	2186.7	2130.8	2133.7
37.5°	7662.7	6192.0	2331.3	1996.2	2067.8	2120.8	2105.0	2102.2	2106.5	2040.6	2044.9
40°	8324.2	6475.5	2143.7	1941.8	1999.1	2010.5	1966.1	1990.5	2012.0	1911.7	1914.6
42.5°	9058.9	6817.8	2024.9	1904.6	1941.8	1914.6	1845.9	1873.1	1870.2	1738.5	1737.0
45°	9807.8	7190.1	1983.3	1877.4	1888.8	1834.4	1758.5	1765.7	1705.5	1586.7	1591.0
47.5°	10552.4	7589.6	2009.1	1854.4	1822.9	1761.4	1702.7	1671.2	1582.4	1493.6	1493.6
50°	11282.8	8009.2	2103.6	1808.6	1732.7	1696.9	1654.0	1598.1	1503.6	1427.7	1422.0
52.5°	11960.1	8431.6	2209.6	1732.7	1619.6	1641.1	1613.9	1549.4	1456.3	1379.0	1380.5
55°	12601.6	8854.1	2251.1	1628.2	1513.6	1592.4	1576.6	1457.8	1346.1	1283.1	1277.3
57.5°	13300.5	9362.5	2205.3	1495.0	1427.7	1536.5	1476.4	1344.7	1280.2	1233.0	1228.7
60°	14268.5	10160.1	2106.5	1330.3	1346.1	1453.5	1350.4	1296.0	1225.8	1172.8	1169.9
62.5°	15876.6	11647.9	1947.5	1167.1	1250.1	1330.3	1290.2	1235.8	1164.2	1112.7	1112.7
65°	18253.8	13715.8	1648.2	1039.6	1142.7	1210.0	1225.8	1171.4	1096.9	1042.5	1045.4
67.5°	20258.6	15013.1	1247.3	933.7	1032.5	1112.7	1157.1	1104.1	1025.3	972.3	973.8
70°	20148.3	14070.9	952.3	829.1	935.1	1016.7	1074.0	1032.5	948.0	897.9	902.2
72.5°	17895.8	11771.1	770.4	723.2	836.3	916.5	985.2	953.7	867.8	819.1	819.1
75°	13147.2	8355.8	615.8	615.8	713.1	811.9	887.8	867.8	789.0	754.7	744.6
77.5°	5541.9	3505.5	482.6	511.2	592.9	697.4	791.9	799.1	730.3	773.3	701.7
80°	1473.5	966.6	368.0	402.4	465.4	575.7	688.8	685.9	611.5	571.4	531.3
82.5°	561.3	380.9	262.1	283.5	336.5	441.1	545.6	562.8	488.3	422.4	422.4
85°	216.2	163.2	161.8	170.4	196.2	292.1	412.4	426.7	368.0	312.2	322.2
87.5°	55.8	48.7	60.1	57.3	90.2	156.1	236.3	244.9	224.8	130.3	186.2
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)