

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: P883927

Luminaire Tested: **NAV-SB4C-730-U-T2**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883927
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-SB4C-730-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 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: 29603 lumens
Efficiency: N/A
Efficacy: 147.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

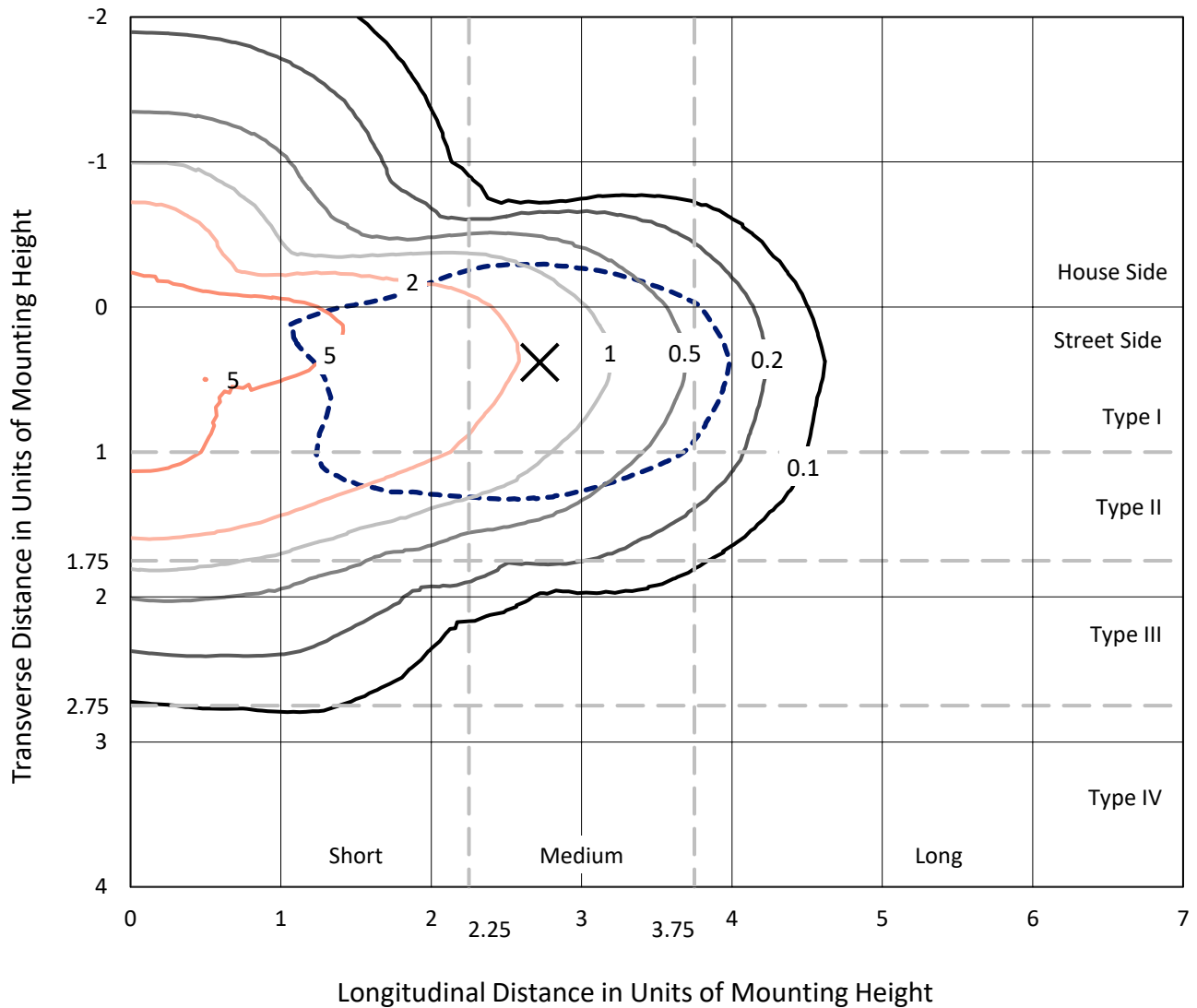
Input Watts (W): 200.7
Input Voltage (V): 120.0
Input Current (Ain): 1.714
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.472
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P883927
 CATALOG NUMBER: NAV-SB4C-730-U-T2

Iso-Footcandle Lines of Horizontal Illumination

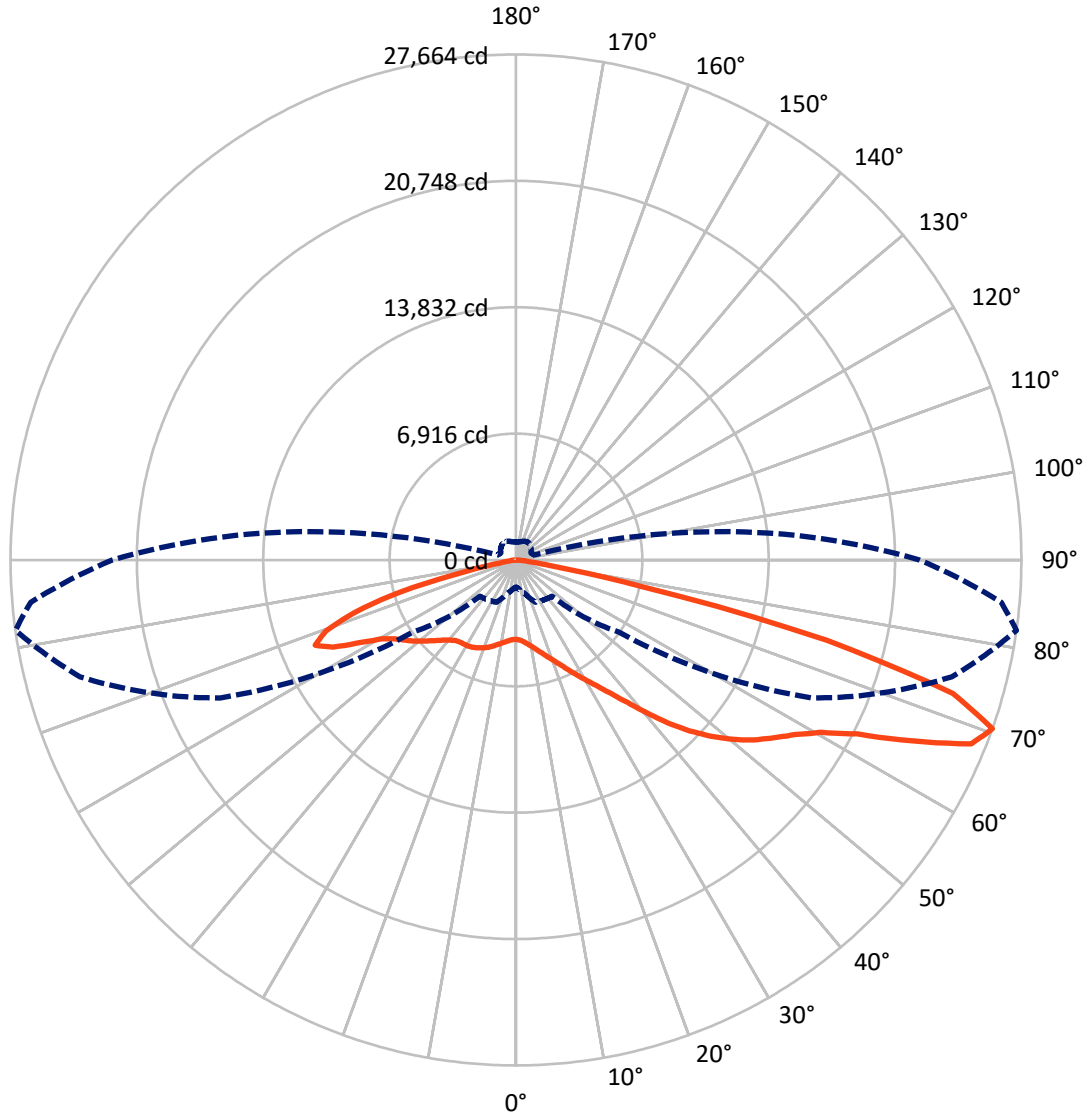
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Medium - N/A

REPORT NUMBER: P883927
CATALOG NUMBER: NAV-SB4C-730-U-T2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P883927
 CATALOG NUMBER: NAV-SB4C-730-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7297.9	0.0	7297.9
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	22305.1	0.0	22305.1
	% Fixture	75.3	0.0	75.3
Total	Lumens	29603.0	0.0	29603.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.8	1.4
10°-20°	1177.3	4.0
20°-30°	1969.6	6.7
30°-40°	3077.0	10.4
40°-50°	4900.5	16.6
50°-60°	6819.6	23.0
60°-70°	7133.6	24.1
70°-80°	3728.4	12.6
80°-90°	387.1	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°	29603.0	100.0
0°-180°	29603.0	100.0

Coefficient of Utilization

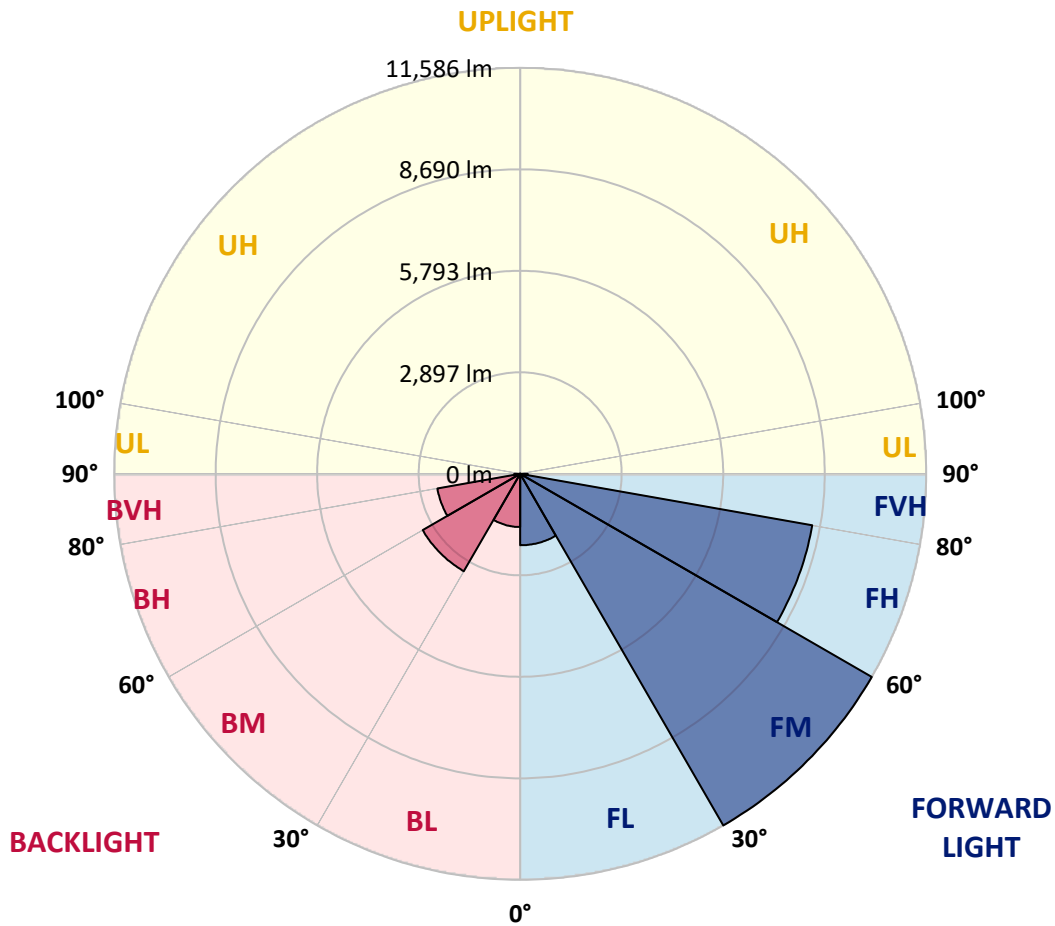


REPORT NUMBER: P883927
 CATALOG NUMBER: NAV-SB4C-730-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2038.5	6.9			
FM (30°-60°)	11586.3	39.1			
FH (60°-80°)	8463.6	28.6			G4/12000
FVH (80°-90°)	216.7	0.7			G2/225
BL (0°-30°)	1518.2	5.1	B3/2500		
BM (30°-60°)	3210.8	10.8	B3/5000		
BH (60°-80°)	2398.5	8.1	B3/2500		G3/2500
BVH (80°-90°)	170.4	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



REPORT NUMBER: P883927
 CATALOG NUMBER: NAV-SB4C-730-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	4340.2	4340.2	4340.2	4340.2	4340.2	4340.2	4340.2	4340.2	4340.2	4340.2	4340.2
2.5°	4443.8	4469.0	4461.1	4453.3	4453.3	4442.3	4440.7	4425.0	4412.4	4392.0	4387.3
5°	4500.4	4527.1	4524.0	4530.2	4550.7	4555.4	4560.1	4550.7	4525.5	4500.4	4489.4
7.5°	4450.1	4480.0	4489.4	4527.1	4589.9	4646.5	4688.9	4706.2	4682.6	4646.5	4629.2
10°	4280.5	4313.5	4346.5	4436.0	4547.5	4681.0	4794.1	4861.7	4857.0	4822.4	4792.6
12.5°	3936.5	3971.0	4041.7	4216.1	4420.3	4655.9	4866.4	5007.8	5056.5	5031.3	4979.5
15°	3661.6	3691.4	3744.8	3923.9	4189.4	4547.5	4893.1	5168.0	5292.1	5277.9	5215.1
17.5°	3653.7	3666.3	3699.3	3784.1	3988.3	4377.9	4864.8	5325.1	5562.3	5560.7	5482.2
20°	3792.0	3796.7	3815.5	3832.8	3949.0	4249.1	4792.6	5455.5	5865.4	5865.4	5780.6
22.5°	3983.6	3980.5	3999.3	3983.6	4040.1	4238.1	4747.0	5570.1	6203.2	6228.3	6121.5
25°	4271.1	4255.3	4250.6	4214.5	4225.5	4340.2	4797.3	5700.5	6603.7	6655.6	6522.0
27.5°	4654.3	4629.2	4611.9	4528.7	4500.4	4550.7	4951.2	5857.6	7049.8	7139.4	6969.7
30°	5153.9	5108.3	5083.2	4938.7	4836.5	4844.4	5183.7	6066.5	7516.4	7660.9	7445.7
32.5°	5835.6	5764.9	5697.4	5460.2	5273.2	5212.0	5483.7	6355.5	8022.2	8253.1	7976.6
35°	6599.0	6542.5	6470.2	6104.2	5816.7	5675.4	5889.0	6759.2	8614.4	8980.4	8620.6
37.5°	7334.1	7285.5	7320.0	6826.8	6456.1	6250.3	6419.9	7301.2	9344.8	9885.2	9428.0
40°	8094.4	8056.7	8061.4	7590.2	7158.2	6927.3	7064.0	7981.3	10182.0	10961.2	10398.8
42.5°	8920.7	8892.4	8798.2	8380.3	7894.9	7679.7	7805.4	8766.7	11080.5	12186.4	11463.8
45°	9845.9	9828.6	9740.6	9261.5	8705.5	8463.6	8633.2	9633.8	11983.8	13339.4	12533.6
47.5°	10645.4	10659.6	10648.6	10244.9	9668.4	9313.4	9516.0	10538.6	12824.2	14423.3	13559.3
50°	11030.3	11104.1	11212.5	11086.8	10728.7	10367.4	10406.7	11412.0	13625.3	15439.6	14542.6
52.5°	10829.2	10969.0	11264.3	11465.4	11603.6	11528.2	11423.0	12279.1	14379.3	16356.9	15472.6
55°	10079.9	10276.3	10766.4	11251.8	11957.1	12505.3	12643.5	13240.4	15114.4	17164.3	16352.2
57.5°	8714.9	9033.8	9473.6	10455.4	11642.9	12978.1	14066.7	14574.0	15893.5	18026.7	17272.7
60°	6374.4	6801.6	7348.3	8809.1	10543.3	12725.2	15277.8	16622.4	17001.0	19143.6	18471.2
62.5°	4079.4	4343.3	4846.0	6222.0	8215.4	11429.3	15648.5	19182.8	18878.1	20975.1	20268.3
65°	2792.9	2962.6	3422.8	4195.7	5310.9	8507.5	14655.7	21102.4	21859.5	23878.0	23340.8
67.5°	2029.5	2158.3	2551.0	3228.0	3460.5	5034.5	11372.7	21014.4	24757.7	26868.8	26033.2
70°	1479.7	1570.8	1900.7	2551.0	2662.5	2800.8	6889.6	17863.3	24694.8	27663.7	26663.1
72.5°	1096.4	1159.3	1380.7	1979.2	2155.2	1891.3	3410.2	12982.8	21220.2	25021.6	24218.9
75°	793.3	840.4	1003.8	1514.3	1724.8	1440.4	1701.2	7587.1	14801.8	17601.0	17742.4
77.5°	606.3	642.5	749.3	1109.0	1380.7	1080.7	1055.6	3490.4	7018.4	7053.0	7448.8
80°	487.0	510.5	568.6	780.7	1058.7	809.0	688.0	1409.0	2218.0	1877.1	1969.8
82.5°	358.1	397.4	480.7	548.2	757.1	557.6	419.4	711.6	843.5	725.7	732.0
85°	204.2	230.9	290.6	392.7	483.8	340.9	240.3	315.7	392.7	322.0	287.5
87.5°	72.3	94.2	102.1	153.9	210.5	141.4	92.7	91.1	128.8	95.8	80.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P883927
 CATALOG NUMBER: NAV-SB4C-730-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4340.2	4340.2	4340.2	4340.2	4340.2	4340.2	4340.2	4340.2	4340.2	4340.2	4340.2
2.5°	4371.6	4363.7	4332.3	4289.9	4245.9	4203.5	4189.4	4159.5	4139.1	4128.1	4140.7
5°	4459.6	4434.4	4360.6	4266.3	4167.4	4060.6	3985.2	3916.0	3865.8	3818.7	3837.5
7.5°	4585.2	4541.2	4414.0	4249.1	4073.1	3895.6	3763.7	3663.1	3595.6	3551.6	3561.0
10°	4731.3	4663.8	4469.0	4222.4	3950.6	3696.1	3540.6	3454.2	3411.8	3388.3	3394.5
12.5°	4899.4	4803.6	4525.5	4161.1	3763.7	3473.1	3366.3	3341.1	3342.7	3344.3	3347.4
15°	5106.7	4973.2	4571.1	4027.6	3520.2	3301.9	3283.0	3323.9	3366.3	3386.7	3385.1
17.5°	5340.8	5152.3	4578.9	3807.7	3281.4	3191.9	3251.6	3339.6	3404.0	3432.2	3438.5
20°	5592.1	5334.5	4522.4	3496.6	3085.1	3102.4	3209.2	3322.3	3393.0	3429.1	3438.5
22.5°	5879.6	5529.3	4387.3	3169.9	2924.9	3005.0	3130.6	3240.6	3314.4	3350.6	3360.0
25°	6207.9	5747.6	4175.2	2895.0	2786.6	2895.0	3020.7	3111.8	3171.5	3204.5	3213.9
27.5°	6572.3	5975.4	3892.5	2676.7	2665.7	2781.9	2885.6	2956.3	2987.7	3012.8	3022.3
30°	6938.3	6182.7	3550.0	2511.7	2560.4	2670.4	2744.2	2775.6	2785.1	2789.8	2800.8
32.5°	7334.1	6361.8	3190.3	2375.1	2459.9	2562.0	2606.0	2620.1	2576.1	2546.3	2555.7
35°	7813.2	6553.5	2838.5	2266.7	2360.9	2448.9	2463.0	2450.5	2398.6	2337.4	2340.5
37.5°	8405.4	6792.2	2557.3	2189.7	2268.3	2326.4	2309.1	2306.0	2310.7	2238.4	2243.1
40°	9131.2	7103.2	2351.5	2130.0	2192.9	2205.4	2156.7	2183.4	2207.0	2097.0	2100.2
42.5°	9937.0	7478.7	2221.1	2089.2	2130.0	2100.2	2024.8	2054.6	2051.5	1907.0	1905.4
45°	10758.5	7887.1	2175.6	2059.3	2071.9	2012.2	1929.0	1936.8	1870.8	1740.5	1745.2
47.5°	11575.4	8325.3	2203.9	2034.2	1999.7	1932.1	1867.7	1833.1	1735.8	1638.4	1638.4
50°	12376.5	8785.6	2307.5	1983.9	1900.7	1861.4	1814.3	1753.0	1649.4	1566.1	1559.8
52.5°	13119.5	9249.0	2423.8	1900.7	1776.6	1800.2	1770.3	1699.6	1597.5	1512.7	1514.3
55°	13823.2	9712.4	2469.3	1786.0	1660.4	1746.7	1729.5	1599.1	1476.6	1407.5	1401.2
57.5°	14589.8	10270.0	2419.1	1639.9	1566.1	1685.5	1619.5	1475.0	1404.3	1352.5	1347.8
60°	15651.6	11145.0	2310.7	1459.3	1476.6	1594.4	1481.3	1421.6	1344.6	1286.5	1283.4
62.5°	17415.7	12777.0	2136.3	1280.2	1371.3	1459.3	1415.3	1355.6	1277.1	1220.5	1220.5
65°	20023.2	15045.3	1808.0	1140.4	1253.5	1327.3	1344.6	1284.9	1203.2	1143.6	1146.7
67.5°	22222.4	16468.5	1368.2	1024.2	1132.6	1220.5	1269.2	1211.1	1124.7	1066.6	1068.2
70°	22101.4	15434.9	1044.6	909.5	1025.7	1115.3	1178.1	1132.6	1039.9	984.9	989.6
72.5°	19630.5	12912.1	845.1	793.3	917.4	1005.3	1080.7	1046.2	951.9	898.5	898.5
75°	14421.7	9165.7	675.5	675.5	782.3	890.7	973.9	951.9	865.5	827.8	816.8
77.5°	6079.1	3845.4	529.4	560.8	650.3	765.0	868.7	876.5	801.1	848.2	769.7
80°	1616.4	1060.3	403.7	441.4	510.5	631.5	755.6	752.4	670.7	626.8	582.8
82.5°	615.8	417.8	287.5	311.0	369.1	483.8	598.5	617.3	535.6	463.4	463.4
85°	237.2	179.1	177.5	186.9	215.2	320.4	452.4	468.1	403.7	342.4	353.4
87.5°	61.3	53.4	66.0	62.8	99.0	171.2	259.2	268.6	246.6	142.9	204.2
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)