

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: P970834

Luminaire Tested: **NAV-SB6C-727-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970834
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-727-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42781.4 lumens
Efficiency: N/A
Efficacy: 142.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

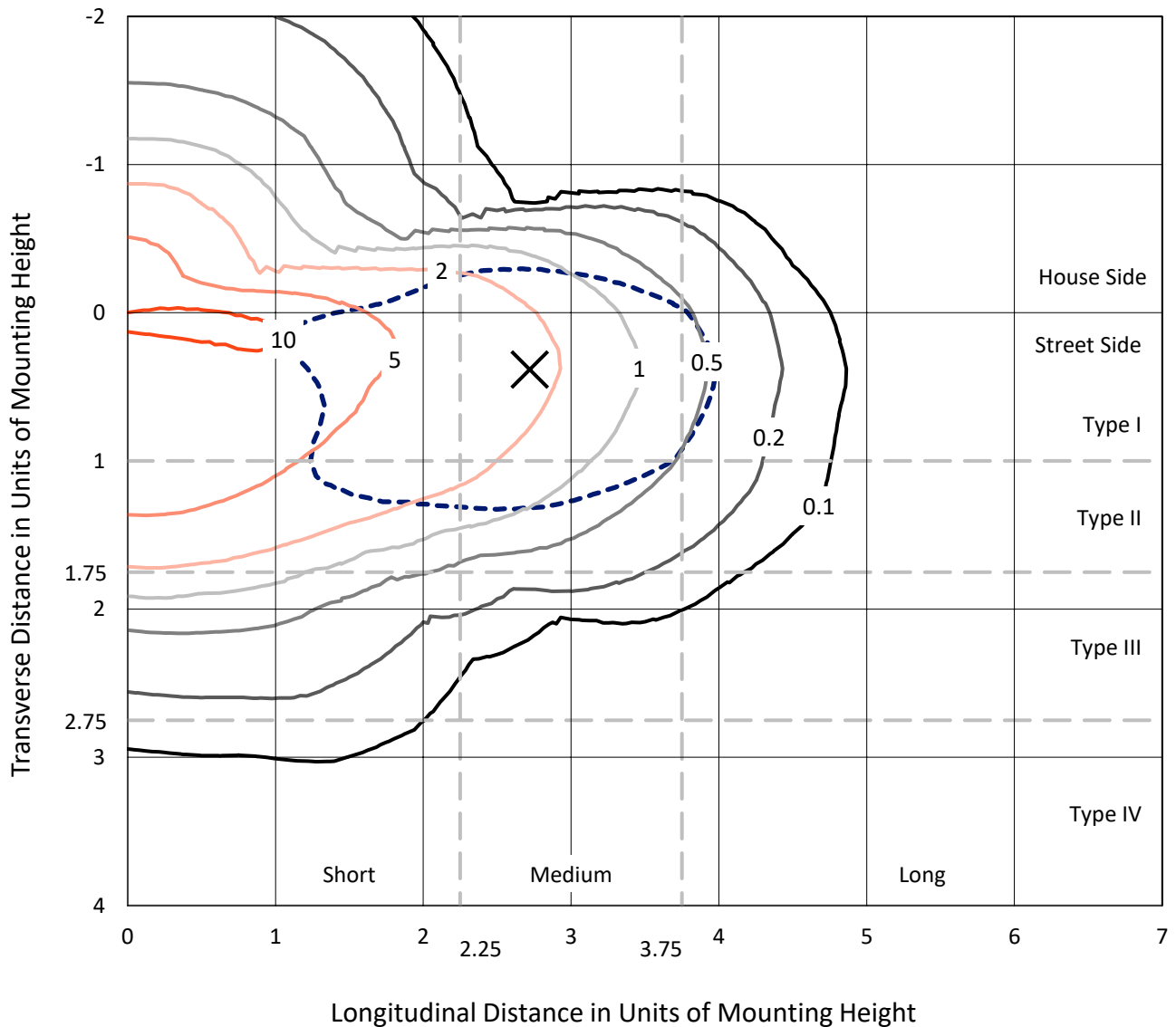
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

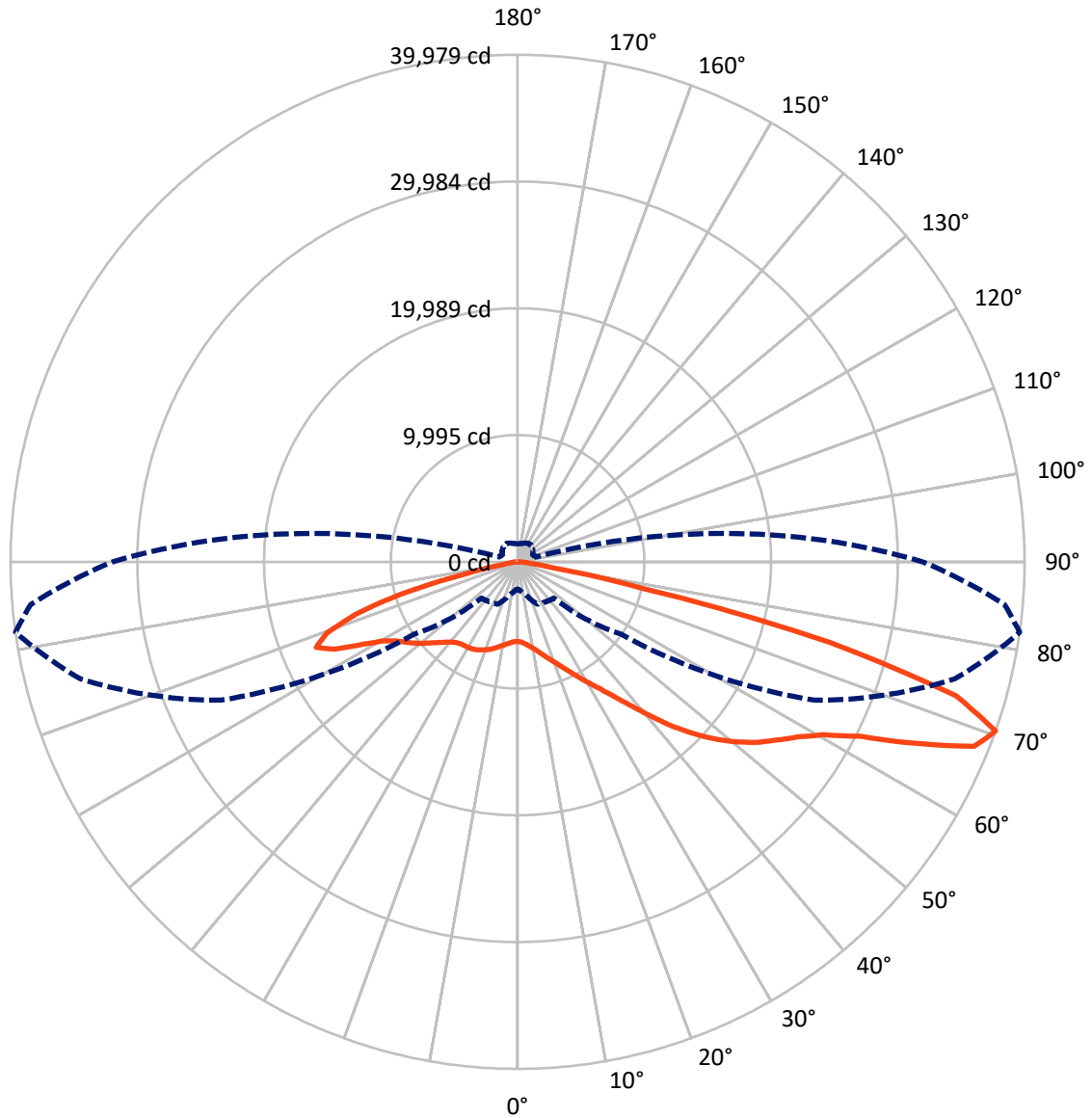
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 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	10546.7	0.0	10546.7
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	32234.8	0.0	32234.8
	% Fixture	75.3	0.0	75.3
Total	Lumens	42781.4	0.0	42781.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	592.2	1.4
10°-20°	1701.5	4.0
20°-30°	2846.4	6.7
30°-40°	4446.8	10.4
40°-50°	7082.0	16.6
50°-60°	9855.5	23.0
60°-70°	10309.3	24.1
70°-80°	5388.2	12.6
80°-90°	559.5	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°	42781.4	100.0
0°-180°	42781.4	100.0

Coefficient of Utilization

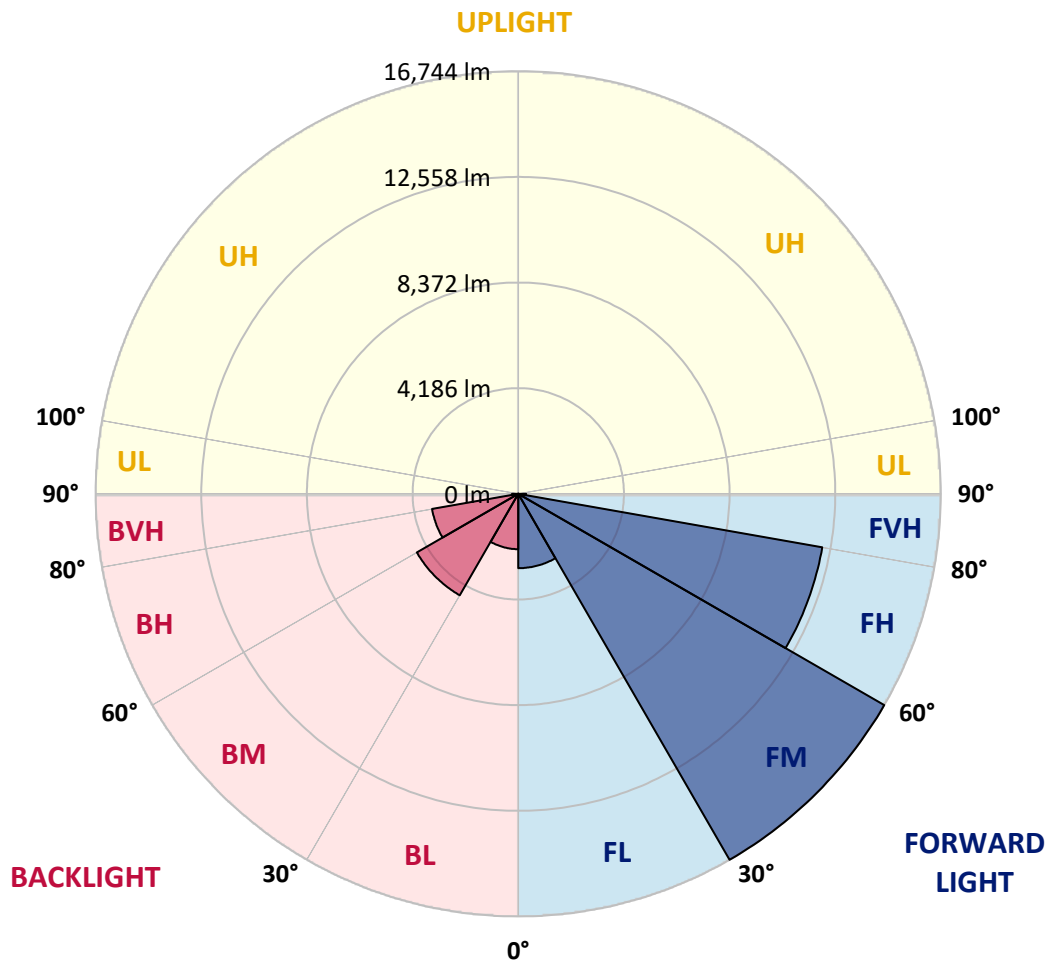


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2946.0	6.9			
FM (30°-60°)	16744.2	39.1			
FH (60°-80°)	12231.4	28.6			G5
FVH (80°-90°)	313.2	0.7			G3/500
BL (0°-30°)	2194.1	5.1	B3/2500		
BM (30°-60°)	4640.1	10.8	B3/5000		
BH (60°-80°)	3466.2	8.1	B4/5000		G4/5000
BVH (80°-90°)	246.3	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	6272.3	6272.3	6272.3	6272.3	6272.3	6272.3	6272.3	6272.3	6272.3	6272.3	6272.3
2.5°	6422.1	6458.4	6447.0	6435.8	6435.8	6419.9	6417.6	6394.9	6376.7	6347.2	6340.4
5°	6503.8	6542.5	6537.9	6547.0	6576.5	6583.3	6590.1	6576.5	6540.2	6503.8	6487.9
7.5°	6431.2	6474.3	6487.9	6542.5	6633.3	6715.0	6776.3	6801.2	6767.2	6715.0	6690.0
10°	6186.1	6233.7	6281.4	6410.8	6572.0	6764.9	6928.4	7026.0	7019.2	6969.2	6926.1
12.5°	5688.9	5738.8	5841.0	6092.9	6388.1	6728.6	7032.7	7237.1	7307.4	7271.1	7196.2
15°	5291.6	5334.7	5411.9	5670.7	6054.4	6572.0	7071.4	7468.7	7647.9	7627.5	7536.7
17.5°	5280.3	5298.4	5346.1	5468.7	5763.8	6326.8	7030.5	7695.7	8038.5	8036.2	7922.6
20°	5480.1	5486.8	5514.1	5539.1	5707.0	6140.7	6926.1	7884.1	8476.5	8476.5	8354.0
22.5°	5757.0	5752.4	5779.7	5757.0	5838.7	6124.8	6860.2	8049.8	8964.6	9000.9	8846.6
25°	6172.4	6149.7	6142.9	6090.7	6106.5	6272.3	6932.9	8238.2	9543.5	9618.4	9425.5
27.5°	6726.4	6690.0	6665.1	6544.7	6503.8	6576.5	7155.3	8465.2	10188.2	10317.6	10072.5
30°	7448.2	7382.4	7346.1	7137.2	6989.7	7001.0	7491.3	8767.1	10862.4	11071.3	10760.2
32.5°	8433.4	8331.3	8233.6	7890.9	7620.8	7532.2	7924.9	9184.8	11593.5	11927.1	11527.6
35°	9536.7	9455.0	9350.6	8821.7	8406.2	8201.8	8510.6	9768.2	12449.2	12978.1	12458.4
37.5°	10599.1	10528.7	10578.7	9865.8	9330.2	9032.7	9277.9	10551.5	13504.9	14285.7	13625.1
40°	11697.8	11643.4	11650.2	10969.1	10344.8	10011.2	10208.7	11534.4	14714.8	15840.8	15028.0
42.5°	12891.9	12851.0	12714.8	12111.0	11409.6	11098.5	11280.1	12669.4	16013.3	17611.4	16567.2
45°	14229.0	14204.0	14076.9	13384.6	12581.0	12231.3	12476.5	13922.6	17318.6	19277.7	18113.2
47.5°	15384.5	15404.9	15389.0	14805.6	13972.5	13459.5	13752.3	15230.2	18533.1	20844.1	19595.5
50°	15940.7	16047.4	16204.0	16022.4	15504.8	14982.7	15039.4	16492.2	19690.9	22312.8	21016.6
52.5°	15650.1	15852.1	16278.9	16569.5	16769.2	16660.2	16508.2	17745.4	20780.5	23638.6	22360.5
55°	14567.3	14851.0	15559.3	16260.7	17280.1	18072.3	18272.1	19134.7	21843.0	24805.4	23631.8
57.5°	12594.5	13055.3	13691.0	15109.8	16826.0	18755.6	20328.8	21062.0	22968.9	26051.7	24962.0
60°	9212.1	9829.5	10619.5	12730.7	15236.9	18390.1	22079.0	24022.2	24569.4	27665.8	26694.2
62.5°	5895.5	6276.8	7003.3	8991.9	11872.7	16517.3	22614.8	27722.5	27282.1	30312.7	29291.1
65°	4036.2	4281.4	4946.5	6063.5	7675.2	12294.9	21180.1	30496.5	31590.8	34507.9	33731.4
67.5°	2932.9	3119.1	3686.6	4665.1	5001.1	7275.7	16435.6	30369.4	35779.1	38830.1	37622.4
70°	2138.5	2270.1	2746.8	3686.6	3847.8	4047.6	9956.6	25815.6	35688.2	39978.8	38532.7
72.5°	1584.5	1675.4	1995.5	2860.4	3114.6	2733.2	4928.4	18762.4	30666.9	36160.5	35000.5
75°	1146.4	1214.5	1450.6	2188.4	2492.6	2081.7	2458.6	10964.6	21391.1	25436.5	25640.8
77.5°	876.3	928.4	1082.8	1602.7	1995.5	1561.8	1525.5	5044.1	10142.8	10192.8	10764.9
80°	703.8	737.8	821.7	1128.2	1530.0	1169.1	994.4	2036.3	3205.4	2712.8	2846.7
82.5°	517.6	574.3	694.6	792.2	1094.2	805.9	606.1	1028.4	1219.0	1048.8	1057.9
85°	295.1	333.7	419.9	567.5	699.2	492.6	347.4	456.3	567.5	465.4	415.4
87.5°	104.4	136.2	147.6	222.4	304.2	204.3	134.0	131.7	186.1	138.5	115.8
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°	6272.3	6272.3	6272.3	6272.3	6272.3	6272.3	6272.3	6272.3	6272.3	6272.3	6272.3
2.5°	6317.7	6306.3	6260.9	6199.6	6136.1	6074.8	6054.4	6011.2	5981.7	5965.8	5984.0
5°	6444.8	6408.5	6301.8	6165.6	6022.6	5868.2	5759.3	5659.3	5586.8	5518.6	5545.9
7.5°	6626.4	6562.9	6379.0	6140.7	5886.4	5629.8	5439.2	5293.9	5196.2	5132.7	5146.3
10°	6837.6	6739.9	6458.4	6102.0	5709.4	5341.6	5116.8	4992.0	4930.7	4896.6	4905.6
12.5°	7080.5	6942.0	6540.2	6013.5	5439.2	5019.2	4864.9	4828.5	4830.8	4833.1	4837.6
15°	7380.1	7187.2	6606.0	5820.6	5087.3	4771.8	4744.5	4803.6	4864.9	4894.4	4892.1
17.5°	7718.4	7445.9	6617.4	5502.7	4742.3	4612.8	4699.1	4826.2	4919.3	4960.2	4969.3
20°	8081.6	7709.2	6535.6	5053.2	4458.4	4483.5	4637.8	4801.3	4903.4	4955.7	4969.3
22.5°	8497.0	7990.8	6340.4	4581.0	4226.9	4342.7	4524.3	4683.2	4789.9	4842.1	4855.7
25°	8971.4	8306.3	6034.0	4183.8	4027.1	4183.8	4365.4	4497.1	4583.3	4631.1	4644.6
27.5°	9498.2	8635.5	5625.3	3868.2	3852.4	4020.4	4170.2	4272.3	4317.7	4354.1	4367.7
30°	10027.1	8935.1	5130.4	3629.9	3700.2	3859.1	3965.8	4011.2	4024.9	4031.7	4047.6
32.5°	10599.1	9193.9	4610.6	3432.4	3555.0	3702.5	3766.1	3786.6	3723.0	3679.9	3693.5
35°	11291.5	9470.9	4102.0	3275.8	3411.9	3539.1	3559.5	3541.4	3466.4	3377.9	3382.5
37.5°	12147.3	9815.9	3695.7	3164.5	3278.1	3362.0	3337.1	3332.5	3339.3	3234.9	3241.7
40°	13196.2	10265.4	3398.4	3078.3	3169.1	3187.2	3116.8	3155.5	3189.5	3030.6	3035.1
42.5°	14360.7	10808.0	3209.9	3019.2	3078.3	3035.1	2926.2	2969.3	2964.7	2755.9	2753.7
45°	15547.9	11398.2	3144.1	2976.1	2994.2	2908.0	2787.7	2799.1	2703.6	2515.2	2522.1
47.5°	16728.4	12031.6	3185.0	2939.8	2889.9	2792.2	2699.1	2649.2	2508.5	2367.8	2367.8
50°	17886.1	12696.7	3334.7	2867.1	2746.8	2690.1	2622.0	2533.4	2383.6	2263.3	2254.2
52.5°	18959.9	13366.4	3502.7	2746.8	2567.5	2601.6	2558.4	2456.2	2308.7	2186.1	2188.4
55°	19976.9	14036.0	3568.6	2581.2	2399.5	2524.4	2499.4	2311.0	2133.9	2034.0	2024.9
57.5°	21084.8	14841.9	3496.0	2370.0	2263.3	2435.8	2340.5	2131.6	2029.5	1954.6	1947.7
60°	22619.3	16106.3	3339.3	2108.9	2133.9	2304.2	2140.7	2054.4	1943.2	1859.2	1854.6
62.5°	25168.7	18465.1	3087.3	1850.1	1981.8	2108.9	2045.4	1959.1	1845.6	1763.8	1763.8
65°	28937.0	21743.0	2612.9	1648.1	1811.6	1918.3	1943.2	1857.0	1738.9	1652.6	1657.2
67.5°	32115.2	23799.8	1977.2	1480.1	1636.7	1763.8	1834.2	1750.3	1625.4	1541.4	1543.6
70°	31940.3	22306.0	1509.6	1314.4	1482.4	1611.8	1702.6	1636.7	1502.9	1423.3	1430.2
72.5°	28369.4	18660.2	1221.3	1146.4	1325.7	1452.8	1561.8	1511.9	1375.7	1298.5	1298.5
75°	20841.8	13246.1	976.1	976.1	1130.5	1287.2	1407.4	1375.7	1250.8	1196.4	1180.5
77.5°	8785.3	5557.2	765.1	810.5	939.8	1105.6	1255.3	1266.7	1157.7	1225.9	1112.3
80°	2336.0	1532.3	583.4	637.9	737.8	912.6	1091.9	1087.4	969.3	905.8	842.2
82.5°	889.9	603.8	415.4	449.5	533.5	699.2	864.9	892.2	774.1	669.6	669.6
85°	342.8	258.8	256.6	270.2	311.0	463.1	653.7	676.5	583.4	494.9	510.8
87.5°	88.6	77.2	95.3	90.8	143.0	247.4	374.5	388.2	356.4	206.5	295.1
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)