

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: McGRAW-EDISON

Report Number: P943647

Luminaire Tested: **GALN-SB8B-722-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943647
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8B-722-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37640 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 292.8
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



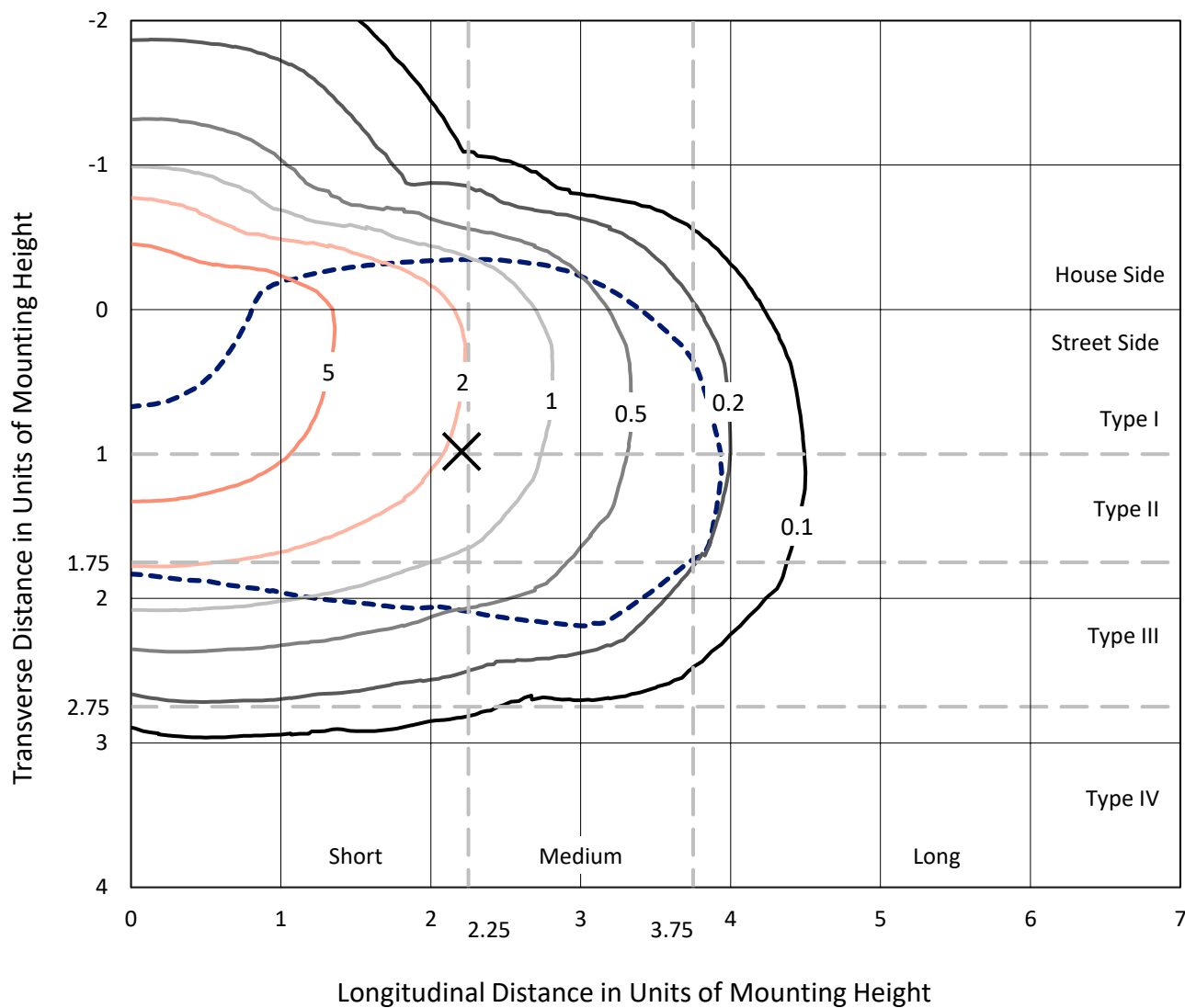
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

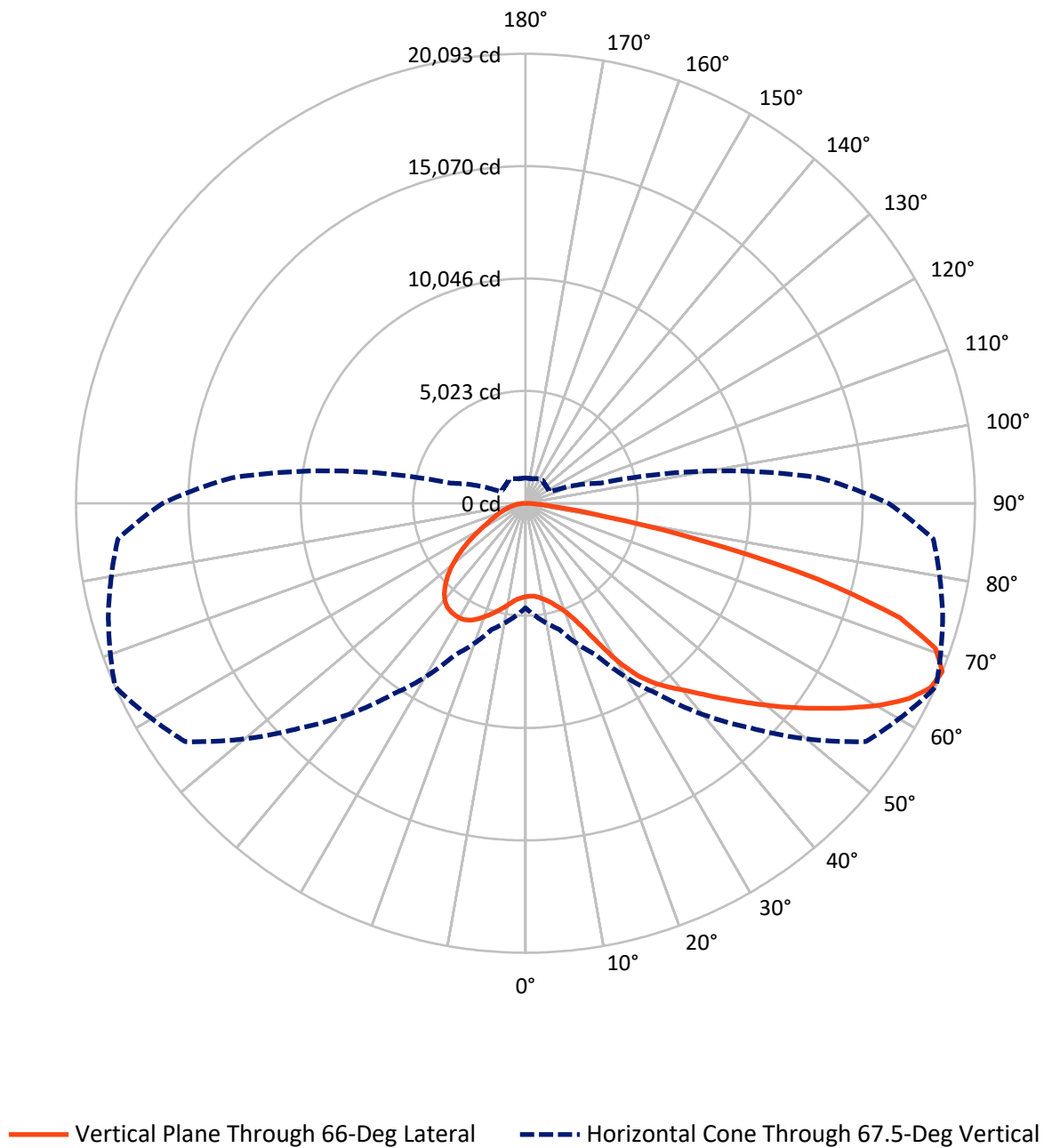


Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9359.1	0.0	9359.1
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	28280.9	0.0	28280.9
	% Fixture	75.1	0.0	75.1
Total	Lumens	37640.0	0.0	37640.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.9	1.1
10°-20°	1367.5	3.6
20°-30°	2635.8	7.0
30°-40°	4621.5	12.3
40°-50°	6870.7	18.3
50°-60°	8709.3	23.1
60°-70°	8521.8	22.6
70°-80°	4065.0	10.8
80°-90°	434.4	1.2
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°	37640.0	100.0
0°-180°	37640.0	100.0

Coefficient of Utilization



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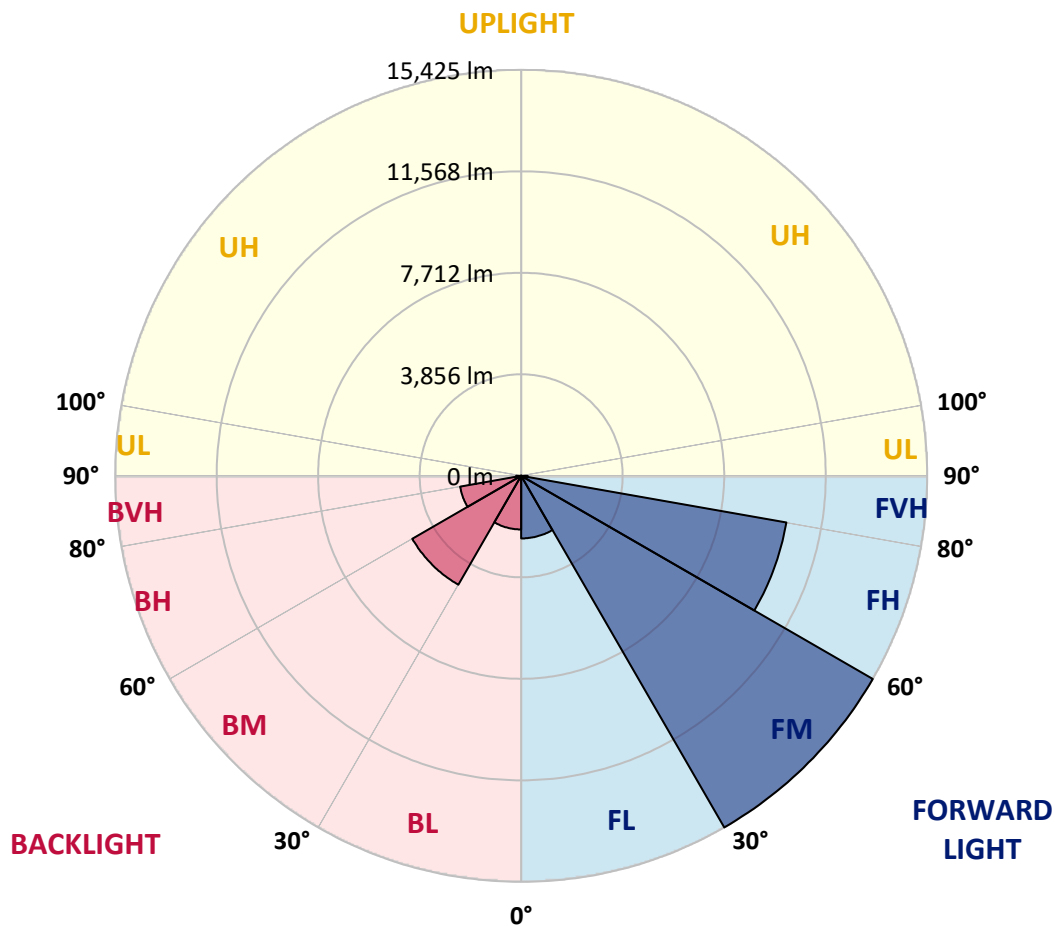
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2378.5	6.3			
FM	(30°-60°)	15424.5	41.0			
FH	(60°-80°)	10231.6	27.2			G4/12000
FVH	(80°-90°)	246.3	0.7			G3/500
BL	(0°-30°)	2038.7	5.4	B3/2500		
BM	(30°-60°)	4777.0	12.7	B3/5000		
BH	(60°-80°)	2355.2	6.3	B3/2500		G3/2500
BVH	(80°-90°)	188.1	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4174.8	4174.8	4174.8	4174.8	4174.8	4174.8	4174.8	4174.8	4174.8	4174.8	4174.8
2.5°	4131.3	4155.0	4149.1	4139.2	4137.2	4141.2	4147.1	4153.0	4151.0	4160.9	4176.8
5°	4119.4	4143.1	4141.2	4141.2	4149.1	4164.9	4174.8	4184.7	4174.8	4186.6	4208.4
7.5°	4127.3	4145.1	4153.0	4160.9	4180.7	4210.4	4234.1	4255.9	4244.0	4257.8	4285.5
10°	4228.2	4242.0	4249.9	4249.9	4263.8	4297.4	4321.1	4360.7	4350.8	4372.5	4408.1
12.5°	4412.1	4425.9	4425.9	4418.0	4427.9	4449.7	4457.6	4501.1	4483.3	4518.9	4554.5
15°	4637.5	4665.2	4643.5	4629.6	4633.6	4655.3	4653.4	4687.0	4669.2	4698.8	4730.5
17.5°	4886.7	4922.3	4886.7	4884.7	4876.8	4900.6	4902.5	4932.2	4900.6	4922.3	4944.1
20°	5181.4	5230.8	5201.2	5211.1	5193.3	5203.1	5213.0	5256.5	5207.1	5222.9	5217.0
22.5°	5596.7	5656.0	5624.4	5661.9	5650.1	5642.2	5640.2	5717.3	5640.2	5646.1	5588.8
25°	6201.8	6273.0	6217.7	6269.1	6269.1	6294.8	6324.5	6423.3	6294.8	6257.2	6108.9
27.5°	7095.7	7166.9	7058.2	7089.8	7079.9	7143.2	7111.6	7356.8	7218.3	7157.0	6858.4
30°	8171.6	8298.1	8092.5	8084.5	8074.7	8175.5	8221.0	8383.2	8242.8	8181.4	7821.5
32.5°	9334.4	9466.9	9221.7	9150.5	9112.9	9174.2	9136.6	9267.2	9170.3	9075.3	8630.4
35°	10564.5	10695.0	10461.7	10323.2	10172.9	10044.4	9909.9	9943.5	9852.5	9708.2	9247.4
37.5°	11727.3	11966.6	11719.4	11571.1	11294.2	11043.1	10667.3	10511.1	10426.1	10293.6	9828.8
40°	12911.9	13048.4	12860.5	12733.9	12433.3	12039.8	11438.6	11108.3	10993.6	10865.1	10471.5
42.5°	13784.1	13914.6	13813.7	13726.7	13491.4	13034.5	12257.3	11844.0	11677.9	11533.5	11199.3
45°	14476.2	14573.1	14509.9	14541.5	14440.6	13997.7	13105.7	12633.1	12461.0	12285.0	12022.0
47.5°	14755.1	14857.9	14958.8	15146.7	15318.7	14992.4	14017.4	13487.4	13305.5	13125.5	12866.4
50°	14723.4	14828.3	15120.9	15520.4	16054.4	15945.6	14978.6	14397.1	14229.0	14023.4	13784.1
52.5°	14470.3	14589.0	14964.7	15629.2	16479.6	16659.5	15957.5	15336.5	15178.3	14933.1	14693.8
55°	13805.8	13877.0	14440.6	15382.0	16580.4	17157.9	16916.6	16337.2	16179.0	15836.8	15575.8
57.5°	12573.8	12676.6	13497.3	14715.5	16327.3	17496.1	17759.1	17389.3	17237.0	16744.6	16471.7
60°	10965.9	11130.1	12069.5	13596.2	15682.6	17494.1	18524.4	18423.6	18297.0	17638.5	17353.7
62.5°	9146.5	9336.4	10240.2	12014.1	14555.3	16997.7	19003.0	19289.8	19224.5	18463.1	18099.3
65°	7024.5	7155.1	8054.9	9967.2	12801.2	15931.8	19058.4	19881.1	19893.0	19090.0	18488.8
67.5°	4677.1	5052.8	5834.0	7479.4	10451.8	14189.5	18571.9	19978.0	20092.7	19305.6	18293.1
70°	2282.2	2776.6	3541.9	4861.0	7479.4	11517.7	17300.3	19183.0	19438.1	18676.7	17126.3
72.5°	947.3	1107.5	1524.8	2398.9	4293.4	7772.1	14745.2	17027.4	17500.0	16548.8	14399.1
75°	638.8	692.2	872.1	1230.1	1955.9	3832.6	10633.7	12696.4	13457.8	12498.6	10216.4
77.5°	492.4	526.0	634.8	860.3	1162.8	1449.6	5691.6	7651.4	8045.0	7447.7	5315.9
80°	387.6	413.3	474.6	626.9	824.7	775.2	1940.1	3466.8	3694.2	3098.9	1708.7
82.5°	336.2	346.1	340.2	425.2	547.8	452.9	636.8	1279.5	1412.0	1024.4	557.7
85°	243.2	270.9	282.8	263.0	290.7	229.4	261.0	452.9	498.4	445.0	314.4
87.5°	98.9	146.3	180.0	170.1	106.8	65.3	81.1	132.5	152.3	166.1	102.8
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°	4174.8	4174.8	4174.8	4174.8	4174.8	4174.8	4174.8	4174.8	4174.8	4174.8	4174.8
2.5°	4178.7	4192.6	4202.5	4214.3	4222.2	4234.1	4257.8	4271.7	4273.7	4283.5	4281.6
5°	4216.3	4236.1	4257.8	4289.5	4325.1	4354.7	4400.2	4431.9	4443.7	4453.6	4451.6
7.5°	4297.4	4325.1	4364.6	4420.0	4471.4	4511.0	4566.3	4603.9	4641.5	4655.3	4657.3
10°	4418.0	4457.6	4514.9	4590.1	4645.4	4696.9	4754.2	4785.9	4823.4	4839.3	4847.2
12.5°	4568.3	4609.9	4685.0	4789.8	4841.2	4876.8	4896.6	4888.7	4896.6	4910.5	4914.4
15°	4740.4	4785.9	4870.9	4983.6	5019.2	4987.6	4944.1	4904.5	4898.6	4902.5	4916.4
17.5°	4944.1	4977.7	5076.6	5171.5	5145.8	5015.3	4920.3	4857.1	4825.4	4815.5	4829.4
20°	5228.8	5228.8	5309.9	5369.3	5197.2	4975.7	4827.4	4724.6	4659.3	4631.6	4625.7
22.5°	5574.9	5543.3	5594.7	5553.2	5187.3	4865.0	4659.3	4481.3	4382.4	4342.9	4336.9
25°	6014.0	5976.4	5962.5	5705.5	5116.1	4689.0	4354.7	4139.2	4052.2	4030.4	4034.4
27.5°	6676.5	6581.5	6401.6	5788.5	4985.6	4412.1	3998.8	3799.0	3749.6	3751.6	3757.5
30°	7558.5	7368.6	6927.6	5802.4	4772.0	4020.5	3634.9	3492.5	3468.8	3478.6	3512.3
32.5°	8375.3	8195.3	7465.5	5739.1	4443.7	3636.9	3308.6	3213.6	3178.0	3189.9	3205.7
35°	9016.0	8966.6	7963.9	5650.1	4040.3	3276.9	3015.9	2934.8	2865.6	2849.8	2861.6
37.5°	9621.2	9601.4	8337.7	5525.5	3640.8	3021.8	2780.5	2673.8	2572.9	2517.5	2519.5
40°	10285.6	10265.9	8582.9	5333.7	3286.8	2800.3	2568.9	2428.5	2303.9	2203.1	2213.0
42.5°	11033.2	10916.5	8699.6	5058.8	2986.2	2612.4	2396.9	2207.0	2042.9	1949.9	1955.9
45°	11849.9	11586.9	8697.6	4708.7	2733.1	2440.4	2213.0	1944.0	1791.7	1704.7	1700.8
47.5°	12716.2	12227.7	8590.8	4321.1	2487.9	2250.5	1928.2	1722.5	1621.7	1568.3	1556.4
50°	13610.0	12826.9	8408.9	3876.2	2236.7	2035.0	1750.2	1609.8	1532.7	1483.2	1465.4
52.5°	14450.5	13370.7	8189.4	3371.9	1981.6	1825.4	1671.1	1562.3	1481.2	1425.9	1402.1
55°	15231.7	13839.4	7878.9	2855.7	1773.9	1684.9	1633.5	1542.6	1449.6	1384.3	1358.6
57.5°	15925.8	14144.0	7342.9	2371.2	1625.6	1588.0	1594.0	1508.9	1402.1	1346.8	1311.2
60°	16503.3	14367.5	6549.9	1922.3	1505.0	1493.1	1532.7	1445.6	1321.1	1257.8	1230.1
62.5°	16849.4	14363.5	5576.9	1574.2	1402.1	1406.1	1451.6	1366.5	1240.0	1180.6	1162.8
65°	16819.7	14011.5	4509.0	1346.8	1303.3	1307.2	1366.5	1279.5	1172.7	1137.1	1135.2
67.5°	16224.5	13153.2	3458.9	1198.4	1194.5	1212.3	1281.5	1220.2	1131.2	1127.2	1133.2
70°	14612.7	11371.4	2491.8	1079.8	1081.8	1107.5	1198.4	1182.6	1109.4	1117.4	1115.4
72.5°	11717.4	8669.9	1673.1	955.2	957.2	998.7	1119.3	1153.0	1087.7	1192.5	1208.3
75°	7803.7	5406.8	1075.8	822.7	824.7	878.1	1050.1	1095.6	1028.4	1188.6	1198.4
77.5°	3749.6	2430.5	779.2	692.2	692.2	741.6	907.7	980.9	876.1	923.6	846.4
80°	1295.3	913.7	613.1	557.7	545.8	579.4	765.3	850.4	755.5	696.1	652.6
82.5°	510.2	474.6	492.4	433.1	393.5	415.3	595.3	702.1	555.7	502.3	500.3
85°	292.7	308.5	348.1	286.8	227.4	255.1	437.1	504.3	419.3	369.8	377.7
87.5°	79.1	108.8	160.2	148.3	102.8	108.8	207.7	278.8	241.3	185.9	191.8
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)